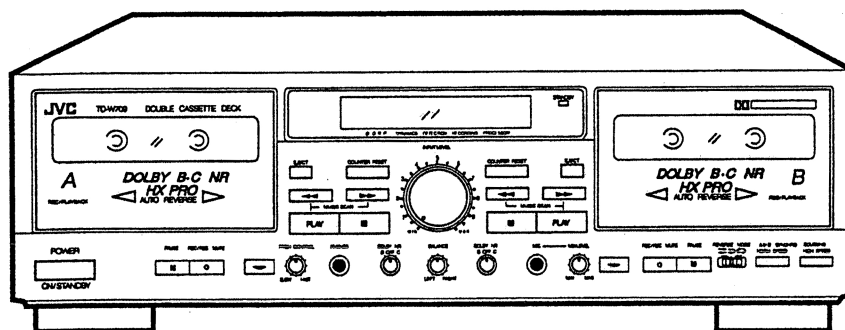


# JVC

## SERVICE MANUAL

### DOUBLE CASSETTE DECK

**TD-W708BK** A/B/E/EN/G/U/UT  
**TD-W709TN** C/J



**COMPU LINK**  
Component

**Area Suffix**

A	.....	Australia
B	.....	U.K.
C	.....	Canada
E	.....	Continental Europe
EN	.....	North Europe
G	.....	Germany
J	.....	U.S.A.
U	.....	Other Areas
UT	.....	Taiwan

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## ■ Safety Precautions

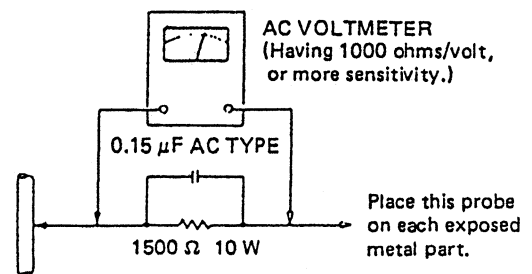
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading and (  $\triangle$  ) on the schematic diagram and by (  $\triangle$  ) on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

- Alternate check method

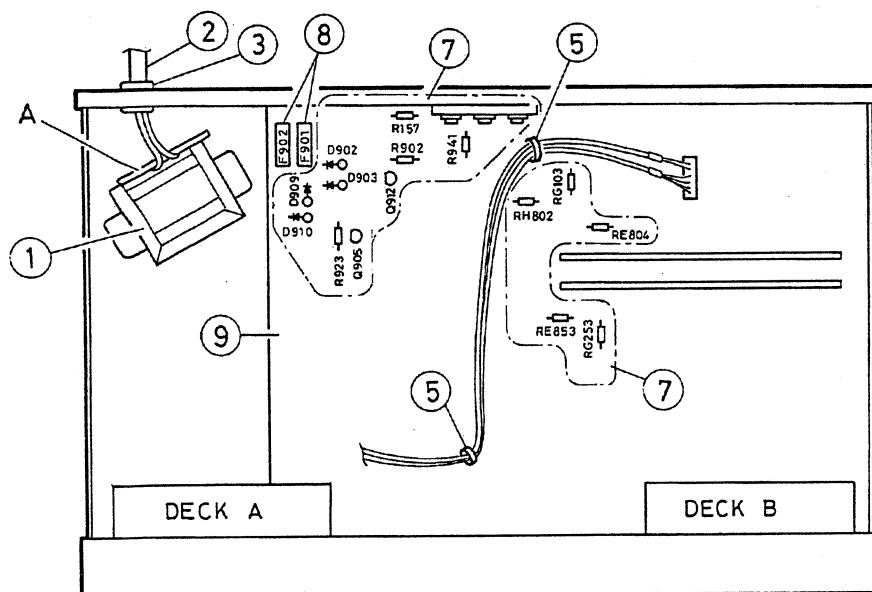
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15  $\mu$  F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



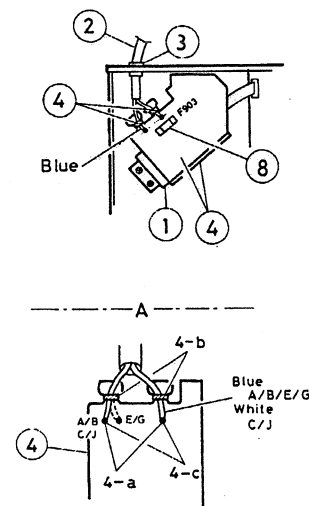
## ◆ Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

## ◆ Important Management Points Regarding Safety (Items Demanding Special Safety Precautions)



—U/UT Version—



1. Securely fix the power transformer while confirming its marking specified in the following.

Suffix	Marking	Description	Model
J	5216508	UL approved No.	TD-W709
C	VTP52A5-021F		TD-W709
A/B/E/EN/G	VTP52Z5-021F		TD-W708
U/UT	VTP52G5-021F		TD-W708

2. Power cord : Make sure of the following markings and inspect exterior scratch and damage.

	Power cord	Attachment plug
J	SPT-1	KP-10W or SU-1P
C	SPT-1	KP-10W and SU-1P
E/EN/G	<VDE>	KP-419C and SE-1
B	BASEC BS6500	KP-610 3A and SE-1
U/UT	<VDE>	KP-8K
A	LTSA-2F	KP-560

3. Install the cord bushing by the specified tool while confirming the marking. Bushing : NIFCO 10p1(C/J) and 2271(A/B/E/EN/G).

4. Wiring terminal

- a) When installing the power cord, wind it around the terminal by the end before soldering.
- b) Arrange the wires while binding them nearby the terminal.
- c) The end of respective power cords is soldered in the air and the space from others must be 3.2 mm or

more in the distance.

5. When arranging every wire and cable, avoid the active power parts, mobiles, heat generating parts, sharp-edged parts, etc.
7. Since the following parts are heat generation ones, they must not contact with electrolytic capacitors, wires, etc.

- Parts are inflammables. Make sure of their lift-up condition for the purpose.

- Parts in box are out of JVC's control.


**D902** **Q905** **Q912** **QH851** **R901** R921 R923  
R937 R938

Other parts

C903 C904 2200uF/25V C/J version (VEND TYPE)

8. All fuses must securely be connected. In A/B/E/EN/G/U/UT version, F901 and F902 must be specified by the rating of 800 mA shown on the surface as well as by the marking of or in U/UT version, F903 must be specified by the rating of 315 mA shown on the surface well as by the marking or .

## ■ Features

1. **Twin reverse recording/playback decks for longer recording time**
    - Continuous automatic or manual recording can alternate between decks A and B
  2. **Full-logic control mechanism in both decks**
  3. **Double Dolby\* HX PRO headroom extension**
  4. **Double Dolby B & C noise reduction systems**
  5. **DDRP (Dynamics Detection Recording Processor) compatibility**  
 The DDRP function is possible only when used with a suitable JVC CD player.
  6. **Auto tape select mechanism (Decks A and B)**
  7. **Large FL display**
    - 2-color peak level meter
    - Mechanism mode indicators
    - Double 4-digit linear counters
  8. **Synchro start (normal/high-speed) dubbing**
    - High-speed dubbing function reduces tape editing time by half
  9. **Multi music scan mechanism for either direction.**  
 "Under License of Staar S.A., Brussels, Belgium"
  10. **Continuous playback**
  11. **INPUT LEVEL control**
  12. **Input BALANCE control**
  13. **PITCH control (Deck A)**
  14. **Metal tape compatibility**
  15. **PHONES jack**
  16. **Microphone mixing is possible**
    - Microphone mixing during playback and recording
    - Microphone input level control provided
  17. **COMPU LINK-3/SYNCHRO terminal**
- \* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.  
 \* "Dolby", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

## ■ Specifications

Type	: Double cassette deck	Motors	: Electric governed DC motor for capstan × 1 DC motor for reel × 1 DC motor for mechanism drive × 1 (For both decks A and B)
Track system	: 4-track, 2-channel	Fast forward/ Rewind time	: Approx. 110 sec. with C-60 cassette
Tape speed	: 4.8 cm/sec (1-7/8 inch/sec) (Normal) 9.5 cm/sec (3-3/4 inch/sec) (High)	Input terminals	
Frequency response	: (–20 dB recording) TYPE IV tape; 20 – 17,000 Hz 30 – 16,000 Hz (±3 dB) TYPE II tape; 20 – 16,000 Hz 30 – 15,000 Hz (±3 dB) TYPE I tape; 20 – 16,000 Hz 30 – 15,000 Hz (±3 dB)	LINE IN (× 1 circuit)	: Input sensitivity; 80 mV (0 VU) Input impedance; 50 kΩ
S/N ratio	: 58 dB (S = 315 Hz, k3 = 3%, N = A.WTD, type IV tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with Dolby B NR on.	MIC × 1 (Monaural)	: Input sensitivity; 0.4 mV (–68 dBV) (0 VU) Matching impedance; 600 Ω ~ 10 kΩ
Improvement of MOL	: 4 dB at 10 kHz with Dolby C NR on.	Output terminals	
Wow and flutter	: 0.08% (WRMS), ±0.2% (DIN/IEC)	LINE OUT (× 1 circuit)	: Output level; 300 mV (0 VU) Output impedance; 5 kΩ
Channel separation	: 40 dB (1 kHz)	PHONES × 1	: Output level; 0.3 mW/8 Ω (0 VU) Matching impedance 8 Ω ~ 1 kΩ
Crosstalk	: 60 dB (1 kHz)	Other terminals	: COMPU LINK-3/SYNCHRO × 2
Harmonic distortion	: k3; 0.8% (TYPE IV tape, 315 Hz, 0 VU)	Power requirements	: AC 240 V, 50/60 Hz (Australia/U.K.) AC 120 V, 60Hz (U.S.A.)
Heads	: METAPERM head for recording/playback, 2-gap ferrite head for erasure; combination head × 1 (For both decks A and B)	Power consumption	: With power switch on 23 W With power switch standby 5.7 W
		Dimensions (W × H × D)	: 435 × 134 × 328 mm (17 - 3/16" × 5 - 5/16" × 12 - 15/16")
		Weight	: 5.1 kg (11.3 lbs.)
		Accessories	: Pin plug cord .....2 Remote cable .....1

Design and specifications are subject to change without notice.



## ■ Instructions (Extraction)

### ◆ Connections

- Do not switch the power on until all the connections are completed.
- Insert the plugs firmly, or poor contact will result, causing noise.
- When the pin-plug cords are employed, always connect the white plug to the left channel terminal. This helps to avoid reversed connections.
- When using the Compu Link Control System version 3, do not connect the power cord to the SWITCHED AC OUTLET of an amplifier or receiver. Otherwise, the automatic power on/off (STANDBY) function cannot be carried out.

#### 1. Connection to a stereo amplifier

##### Note:

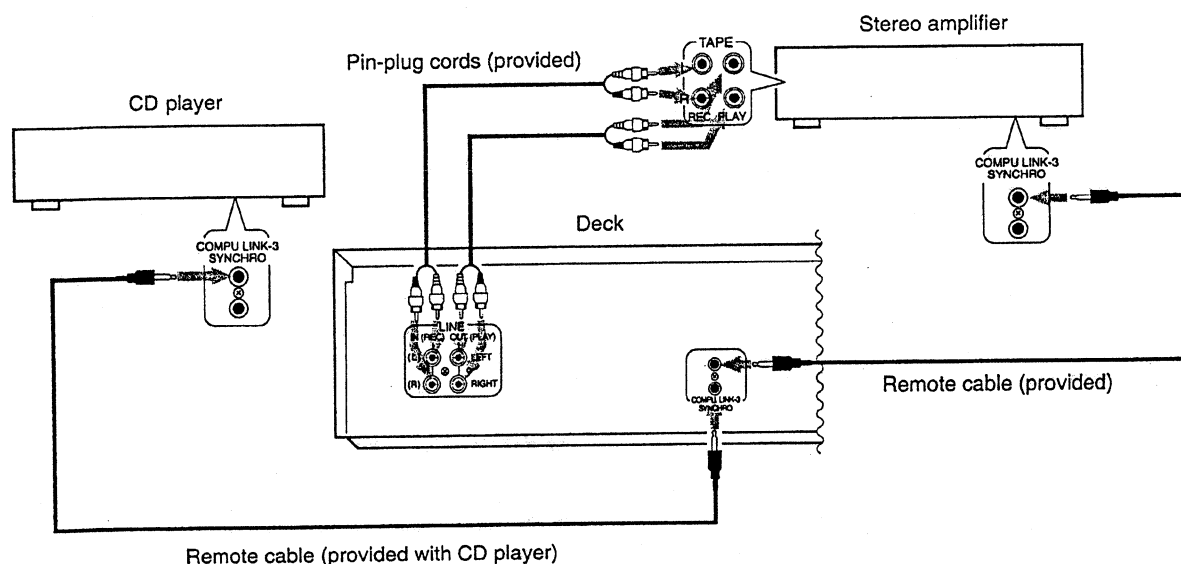
When installing the deck, be sure to install at a distance from your amplifier. If they are stacked, noise (hum) may occur.

#### 2. Remote cable connection for COMPU LINK

- By connecting a remote cable, COMPU LINK functions (automatic power on/off (STANDBY), automatic source selection, synchronized recording and DDRP recording) can be performed. In this time the provided pin-plug cords must be also connected.
- When making synchronized recording with a CD player, connect the remote cable to the COMPU LINK-3/SYNCHRO jacks.

##### Notes:

1. When making synchronized recordings, only a single deck should be connected to the amplifier.
2. If a component is not a JVC COMPU LINK component, bypass it when making the remote cable connections.
3. This deck can be connected with an amplifier and a CD player which have the COMPU LINK-1/SYNCHRO jacks for COMPU LINK performance.(see page 10 for details)

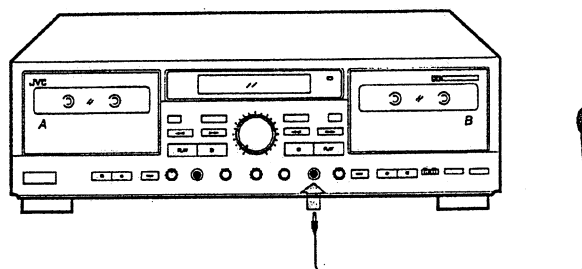


#### 3. Recording through microphone

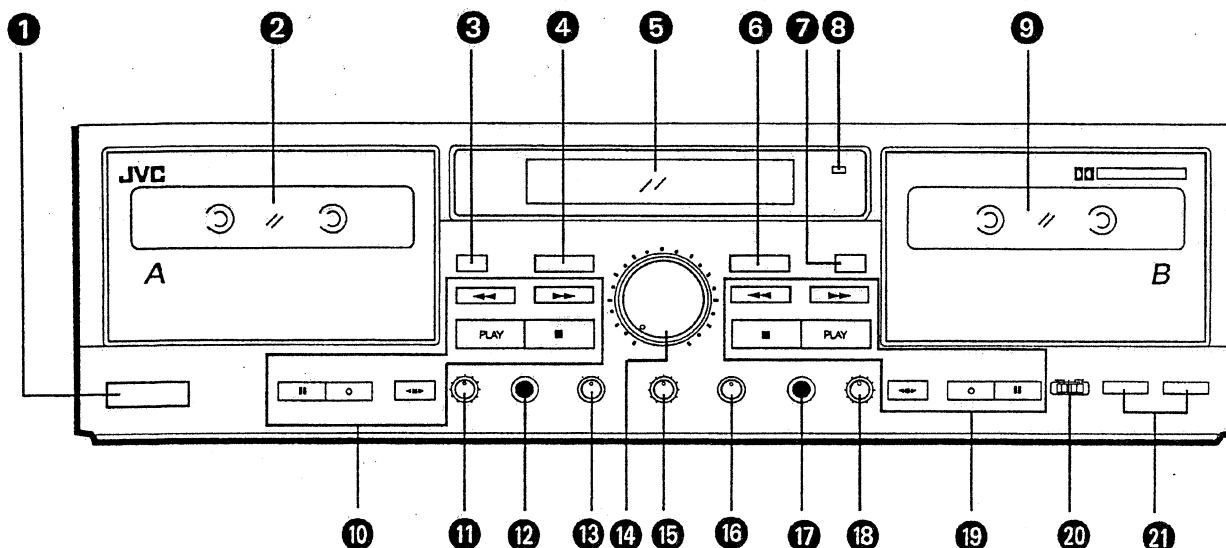
- Microphone having an impedance of 600  $\Omega$  to 10 k $\Omega$  can be employed.

##### Note:

- To avoid howling, turn the amplifier's volume down.



## ◆ Control Name of Their Functions



### ① POWER switch(ON/STANDBY)

### ② Cassette holder (Deck A)

### ③ A-deck EJECT button

### ④ COUNTER RESET button (Deck A)

Press to reset the counter to "0.00"

### ⑤ Indicators

#### ① DDRP indicator

#### ② HX PRO indicator (Deck A)

#### ③ Peak level indicator

These indicators light according to the level of the signal being recorded or the level of the signal recorded on the tape.

#### Note:

0 dB : IEC (DIN) STANDARD LEVEL (250nWb/m)

0 VU : Signal level at 160nWb/m

□□ : DOLBY NR STANDARD LEVEL

#### ④ HX PRO indicator (Deck B)

#### ⑤ Digital counter (Deck A)

The counter reading increases while the tape is running forward and decreases when it is running in reverse. In the Multi Music Scan mode when the ◀◀ (or ▶▶) button is pressed, the number of tunes which will be skipped is displayed.

#### ⑥ Mechanism mode indicators (Deck A)

◀◀ : This lights when in the rewind.

▶▶ : This lights when in the fast-forward.

REC : Lights when the unit is in the record and record-pause modes; blinks during record muting.

⏸ : Pause indicator

PLAY : This lights when in the playback.

◀▶ : Indicates the direction of tape travel.

⑦ DUBBING >> : ">" lights when in the normal-speed dubbing mode. ">>" lights when in the high-speed dubbing mode.

⑧ CONT : Lights when the unit is continuous play or continuous recording mode.

⑨ Mechanism mode indicators (Deck B)

⑩ Digital counter(Deck B)

⑪ Indicates reverse mode.

### ⑥ COUNTER RESET button (Deck B)

### ⑦ B-deck EJECT button

### ⑧ Power STANDBY Indicator

### ⑨ Cassette holder (Deck B)

### ⑩ Cassette operation buttons (Deck A)

◀◀ : Press to wind the tape quickly from right to left.

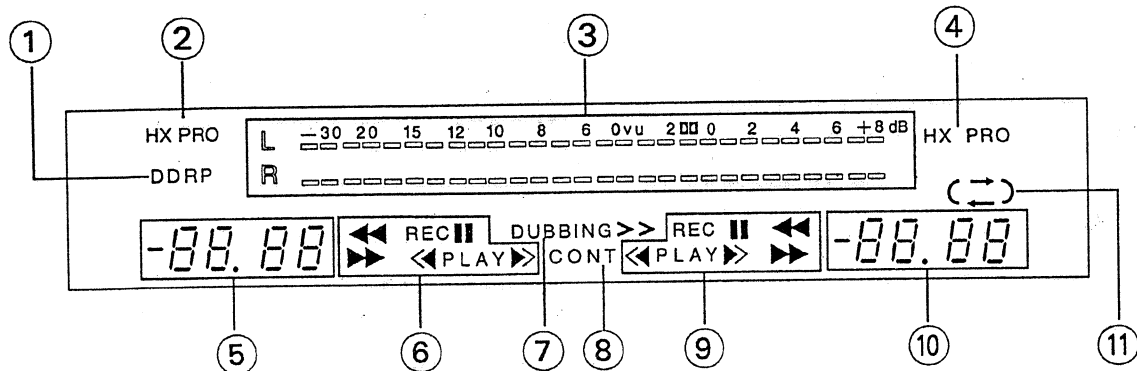
▶▶ : Press to wind the tape quickly from left to right.

PLAY : Press to play the tape.

■ (stop) : Press to stop the tape.

⏸ PAUSE : Press to stop the tape temporarily during recording and playback. Press the PLAY button to release the pause mode.

○ REC/REC MUTE : Press the PLAY button while pressing this button to start recording, and press to leave an appropriate non-recorded section. (See page 10)



◀▶ (direction) : Press to change the direction of tape travel.

**11 PITCH control (Deck A)**

Varies the tape speed in deck A in the range of about  $\pm 10\%$ . However, it cannot change the tape speed in the high-speed dubbing.

Turning it counterclockwise toward "SLOW" causes the tape speed to decrease while turning clockwise toward "FAST" causes it to increase. The center click position is for the standard speed. (See page 8.)

**12 PHONES jack**

Connect headphones (with an impedance of  $8\ \Omega$  to  $1\ \text{k}\Omega$ ).

**13 DOLBY NR switch (Deck A)**

Set to B or C for recording using the Dolby NR system or for playing back a tape that was recorded using the Dolby NR system.

Set to OFF when the Dolby NR system is not used.

**14 INPUT LEVEL control**

Adjust the recording level with this control. (See page 9.)

**15 Input BALANCE control**

Adjusts the balance between the signals input via the left and right LINE IN jacks.

**16 DOLBY NR switch (Deck B)**

**17 MIX MIC jack**

Connect microphones (with an impedance of  $600\ \Omega$  to  $10\ \text{k}\Omega$ ) to these jacks.

Sounds from microphone are monaural.

**18 Mixing microphone level control**

Adjust the microphone input level.

**19 Cassette operation buttons (Deck B)**

For the operations of the buttons, refer to "10 Cassette operation buttons (Deck A)".

■ (stop): Press to stop dubbing.

**20 REVERSE MODE switch**

Select the single side or both sides record/playback mode, or the continuous play mode.

- : For single-side recording or playback.
- : To play or record both sides A and B.
- : To play sides A and B continuously.

**21 A ▶ B SYNCHRO DUBBING button**

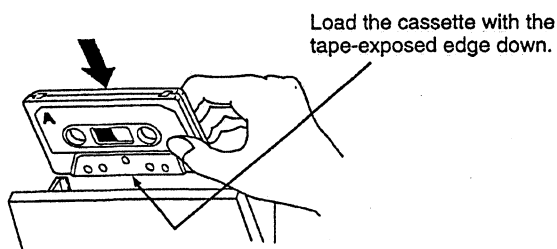
- NORM SPEED : Press to perform normal-speed dubbing.
- HIGH SPEED : Press to perform high-speed dubbing.

## ◆ Cassette Loading

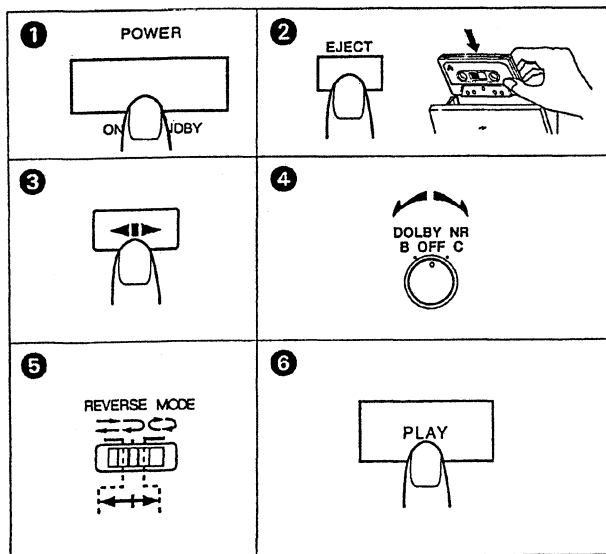
1. Press the EJECT button to open the cassette holder.
  2. Load a cassette as shown.
  3. Press the cassette holder to close it.
- Be sure to obtain the click sound to close the holder securely.

### Notes:

- If the power cord is pulled out while the tape is moving, you might not be able to remove the cassette. If this happens, plug it in again before attempting to remove the cassette.



## ◆ Playback



### Playback of deck A

Operate in the order of the numbers in the illustration.

- 1 Press the POWER switch to set to ON.
  - 2 Load a prerecorded cassette with side A facing out.
  - 3 Select the side to be played back.  
Side A... Forward direction (< PLAY >)  
Side B... Reverse direction (<< PLAY >>)
  - 4 Set the DOLBY NR switch to the same position as when the tape was recorded.
  - 5 Select the REVERSE MODE.
  - 6 Press the PLAY button of deck A to start playback.
- When the deck contains a tape, the deck is turned on automatically and the tape is played back by only pressing the PLAY button.
  - To stop playing back midway ..... Press ■ (stop) button.

### Playback of deck B

Perform steps 2 to 6 of the above procedure for deck B.

### Continuous play

First set the REVERSE MODE switch to <>.

Load cassette tapes in both decks and press the PLAY button of the deck to be played first for continuous play of both decks.

- When playback in the reverse direction ends, the deck switches to the standby mode in the forward direction. At this time, the other deck starts playback. This operation is repeated between decks A and B.
- While one deck is playing back, the cassette in the other one can be replaced. This is convenient to the long-time playback of background music.
- Press the ■ (stop) button of the deck that is running to stop continuous play.

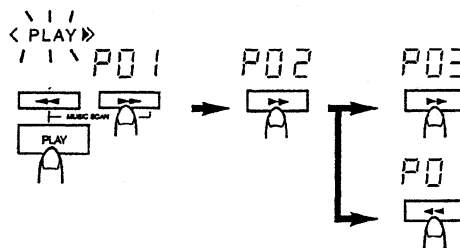
### MICROPHONE MIXING DURING PLAYBACK

By connecting a microphone, microphone mixing with playback sound from deck A or deck B is possible.

### MULTI MUSIC SCAN

- The multi music scan mechanism of this unit allows you to quickly locate the beginning of a specific tune (up to 99 tunes before or after the current tune).
- The multi music scan mechanism functions by detecting non-recorded sections between tunes (of more than 4-5 sec.).
- The illustration shows the forward direction.

Example of fast forward scan



## ◆ Recording

### Procedure

1. Press the PLAY and ◀◀ (or ▶▶) buttons simultaneously.
  2. When more than 2 tunes are to be skipped, after procedure 1 press the ▶▶ (or ◀◀) button the number of times you want to skip tunes. The number of tunes to be skipped is displayed in the counter.
- Relation between Multi Music Scan and REVERSE MODE.
    - ⇄ : The Multi music scan mechanism operates on one side of the tape only. If the number set is too high (more than there are tunes remaining on that side), the tape stops when the end of tape is reached.
    - ⇒ : It operates continuously through one cycle of the A and B sides of the tape. If the number set has not been reached, the tape stops at the end of the B side. When the head rotates to play side A from B or B from A, this rotation is counted as one non-recorded section. When a recorded tune continues from side A to B, this tune is recorded as two tunes. In such a case, press the ◀◀ (or ▶▶) button one extra time.

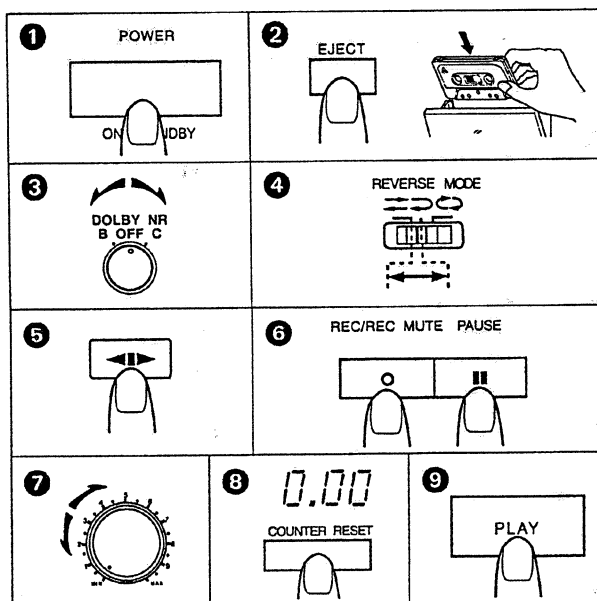
### Notes:

In the following cases, the mechanism may not operate correctly. This is not a malfunction; use the mechanism according to the type of program.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with short non-recorded sections.

### PITCH CONTROL (Deck A)

It is possible to vary the tape speed in deck A in the range of about  $\pm 10\%$  in the playback mode. The center click position is for the standard tape speed.



### Example of recording with deck B

Operate in the order of the numbers in the illustration.

- Make sure the safety tab of the cassette has not been broken off.
- 1 Press the POWER switch to set to ON.
- 2 Load a cassette for recording.
- 3 Set the DOLBY NR switch as required.
- 4 Select the REVERSE MODE.
- 5 Select the side to be recorded.
- 6 Press the || PAUSE button and ○ REC/REC MUTE button (record-pause mode).  
REC lights and PLAY indicator flashes.
- 7 Adjust the recording level and balance. (See page 9.)  
The BALANCE control only works with line input.
- 8 Press to "0.00".
- 9 Press the PLAY button to start recording.

### Notes:

- When the safety tabs are removed from a cassette tape, the tape cannot be recorded even if you try. Make sure that both tabs are still in place when performing both sides recording.
- When the tape is played or recorded in the reverse direction (side B), only side B is played back or recorded and then the tape stops automatically.

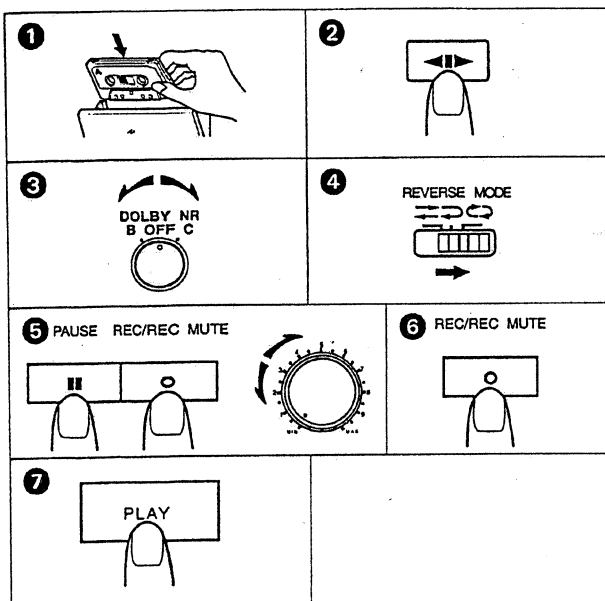
It should be noted that it may be unlawful to re-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

**DDRP (Dynamics Detection Recording Processor) recording**  
DDRP recording is performed with suitable JVC CD players and the recording level adjustment is performed automatically.

Since recording level adjustment is performed automatically for different types of tape (normal, CrO<sub>2</sub> and metal), the adjustment of INPUT LEVEL control is not required.

- Read the instruction book of your CD player carefully.

## ALTERNATE CONTINUOUS RECORDING BETWEEN DECK A AND DECK B WITH AUTOMATIC SELECTION



- 1 Load the tapes to be recorded in decks A and B with sides A facing out. (Be sure to wind past the leader tapes.)
- 2 Press the (direction) button to select the tape transport direction of decks A and B.
- 3 Set the DOLBY NR switch as required.
- 4 Set the REVERSE MODE switch to .
- 5 Set deck A to the record-pause mode and adjust the recording level.
- 6 Set deck B to the record-standby mode. (press only the REC/REC MUTE button.)  
In this time, the REC and CONT indicators light.
- 7 Press the PLAY button of deck A; continuous recording starts.
  - When side B of deck A finishes recording, deck B starts recording automatically. If both decks start recording from the beginning of side A, the continuous recording will be done for about 3 hours with two C-90 tapes. When starting recording from deck B, set deck B to the record (or record-pause) mode first and set deck A to the record-standby mode.

**To cancel the record-standby mode.**

Press the (stop) button on the deck during record-standby.

## MICROPHONE MIXING DURING RECORDING

By connecting a microphone, microphone mixing during recording is possible by following the recording procedure on page 4. Adjust the microphone input level by setting the record-pause mode and observing the peak level indicators.

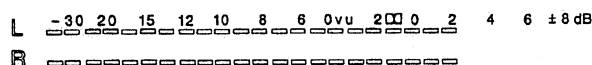
- When the record-pause mode is set and the INPUT LEVEL control is set to MIN, sounds are output only from the microphone, and it can be used as a public address system.

## RECORDING LEVEL ADJUSTMENT

Adjust the recording level while observing the peak level indicator indication.

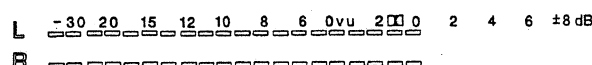
For example:

With Type IV (metal) tape



Because of metal tape's higher saturation level, it is OK that "+ 2" lights occasionally.

With Type I (normal) or Type II (chrome) tape



It is OK that "+ 0" lights occasionally.

- When the recording level is too low, the hiss noise inherent in the tape will be conspicuous.
- When the recording level is too high, exceeding the saturation level, the recording will contain cracking noise and will be distorted.

It is best to adjust so that the maximum sound level of the source to be recorded reaches the very limit of the saturation level of the tape to be used.

The best level varies depending on the type of music and type of tape so it is better to make test recording, using FM music, records, etc.

## DOLBY NR and DOLBY HX PRO

### Dolby NR System

To reduce the hiss inherent in tape recording, use the Dolby NR System when making recordings. When listening to a tape recorded with the Dolby NR system, set the DOLBY NR switch to B or C according to the system selected in the recording mode.

**Note:**

The sound quality will change if the positions of the DOLBY NR switch are different in recording and playback.

### Dolby HX PRO headroom extension

Dolby HX PRO headroom extension system controls the bias current so that the effective bias is constant even when there are fluctuations in the high-frequency components of the input signal.

This greatly improves the high-frequency saturation level while reducing the low-frequency signal level variations and distortion. When a source which contains many high-frequency components is recorded, these high-frequency signals have the same function as bias and therefore, the effective bias current changes. This will result in phenomena such as changes in the level of low-frequency signal and subsequent distortion and reduction of the high-frequency saturation level.

- The dynamic sound recorded with this system sounds the same even when the tape is played back in a deck that does not have Dolby HX PRO.
- This system automatically works when in recording; however, Dolby HX PRO is not a noise reduction system.

### Erasing

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.

### To erase a tape without making a new recording...

Follow the section "RECORDING" but in step ⑦, set the INPUT LEVEL control to MIN.

## AUTOMATIC RECORD MUTING

### A. To leave non-recorded sections of about 4-5 seconds automatically

1. When the undesired section comes during recording, press the **O REC/REC MUTE** button and release it.
2. The REC indicator flashes and a non-recorded section is made during record muting operation.  
About 4-5 seconds later, the tape automatically stops, and the unit enters the record-pause mode.
3. Press the PLAY button to start recording again.

### B. To leave non-recorded sections of more than 4-5 seconds

1. Keep the **O REC/REC MUTE** button pressed continuously as long as you want to make a non-recorded section. By releasing the finger from the button after the above operation, the unit enters the record-pause mode.
2. Press the PLAY button to start recording again.

### C. To leave non-recorded section of less than 4 seconds

When the undesired section comes during recording... After the **O REC/REC MUTE** button is pressed, press the PLAY button before the unit enters the pause mode to start recording again, or press the **II PAUSE** button to enter the record-pause mode.

- The peak level indicator lights even during record muting according to the input level which can be heard from the speakers or headphones so that recording can be resumed at the exact point on the tape.

## ◆ Compu Link Control System

### **COMPU LINK** Control System

The Compu Link Control System controls relative operations between components automatically and facilitates various operations.

This is a system originated and developed by JVC for facilitating various system operations. (For version 1 components, "COMPU LINK-1 / SYNCHRO" is marked on the rear panel. For version 3 components, "COMPU LINK-3 / SYNCHRO" is marked on the rear panel. This unit belongs to version 3.)

The version 3 system controls relative functions between this unit and an amplifier or receiver, in addition to all of the functions of version 1.

### Automatic Power On/Off (STANDBY) Function (COMPU LINK-3)

This function works when an amplifier or receiver having a

COMPU LINK-3/SYNCHRO terminal is connected. For example, if a deck contains a tape, the deck is turned on automatically and the tape is played back by only pressing the PLAY button. When the amplifier or receiver is switched STANDBY, the source unit is automatically switched STANDBY.

### Automatic Source Selection (COMPU LINK -1,3)

When the provided remote cables are used for connecting this unit to other components which have COMPU LINK-1 or 3/SYNCHRO terminals, the switch-over of all system components is possible with simple one-touch of the source selector button of JVC's amplifier or receiver.

By doing this, the corresponding component will start playing automatically.

The source select button of the remote control unit or the activation button of the desired component can be also used for this purpose. When the components have been switched over, the previous component will stop playing within five seconds.

### Synchronized Recording (COMPU LINK -1,3)

Synchronized recording refers to the process in which the deck starts recording in synchronism with the CD player. Perform the synchronized recording as follows:

1. Set the cassette deck to the record-pause mode in accordance with the recording procedures on page 9.
2. If you want the programmed recording, program the desired tunes in any order you wish to hear.
3. Press the PLAY/PAUSE button of the CD player. By so doing, the cassette deck is placed in the record mode and synchronized with the CD player for recording. Synchronized recording thus can be made possible.

### DDRP (Dynamics Detection Recording Processor) recording

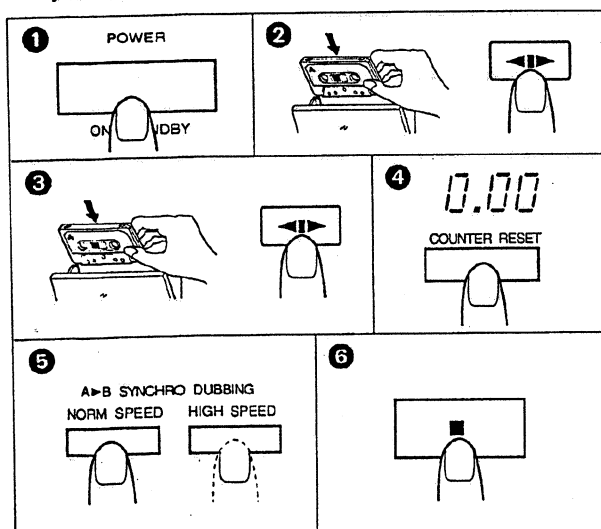
The DDRP function makes possible fully automatic recording when used with a suitable JVC CD player. When the DDRP button of a suitable JVC CD player is pressed, the recording level is first adjusted automatically, then recording starts; it is not necessary to start recording by the normal procedure.

### Notes:

- Synchronized recording or DDRP recording stops automatically when the CD player stops playing.
- Synchronized recording does not start except when the record-pause mode is set by simultaneously pressing the **O REC/REC MUTE** and **II PAUSE** buttons in the stop mode.
- To cancel synchronized recording or DDRP recording, press the STOP button of the CD player or cassette deck.
- The source is locked to the CD position during synchronized recording or DDRP recording to avoid accidental stops or switch-over to another component. To switch over the components, cancel synchronized recording or DDRP recording first.
- The INPUT LEVEL control does not function during DDRP recording.

## ◆ Dubbing

### • Synchro dubbing



- ❶ Press the POWER switch to set to ON
- ❷ Insert a prerecorded tape into deck A with side A facing out and press the ◀▶ (direction) button to select the travel direction.
- ❸ Insert the blank tape with side A facing out into deck B, and press the ◀▶ (direction) button to select the side to be recorded.
- ❹ Press to "0.00".
- ❺ Press the SYNCHRO DUBBING (NORM or HIGH SPEED) button to start dubbing.
- ❻ Press the ■ (stop) button of deck B to stop dubbing.

When deck B stops, the dubbing mode is automatically released.

#### • Synchro record muting

When deck A stops or enters any mode other than the playback mode during dubbing, deck B enters the record mute operation automatically and then enters the record-pause mode.

- **Before pressing the SYNCHRO DUBBING button**  
Confirm that both decks are in the stop mode before starting dubbing.

### Input level

Recording is performed at the same level as the playback tape during dubbing regardless of the position of the INPUT LEVEL control.

### Microphone mixing during dubbing

By connecting a microphone, microphone mixing during dubbing is possible with the playback sounds from deck A. Be sure to perform dubbing at normal speed.

### Dubbing and DOLBY NR switches

During **normal-speed** dubbing, the NR mode of deck A should be set to match the NR mode of the cassette to be copied. The NR mode of deck B may be set as you wish. Recording on the cassette in deck B will take place in accordance with the NR mode setting for deck B.

During **high-speed** dubbing, the same NR mode selected for the playback cassette is applied to the recording cassette, regardless of the position of the deck B NR switch.

### Tape editing

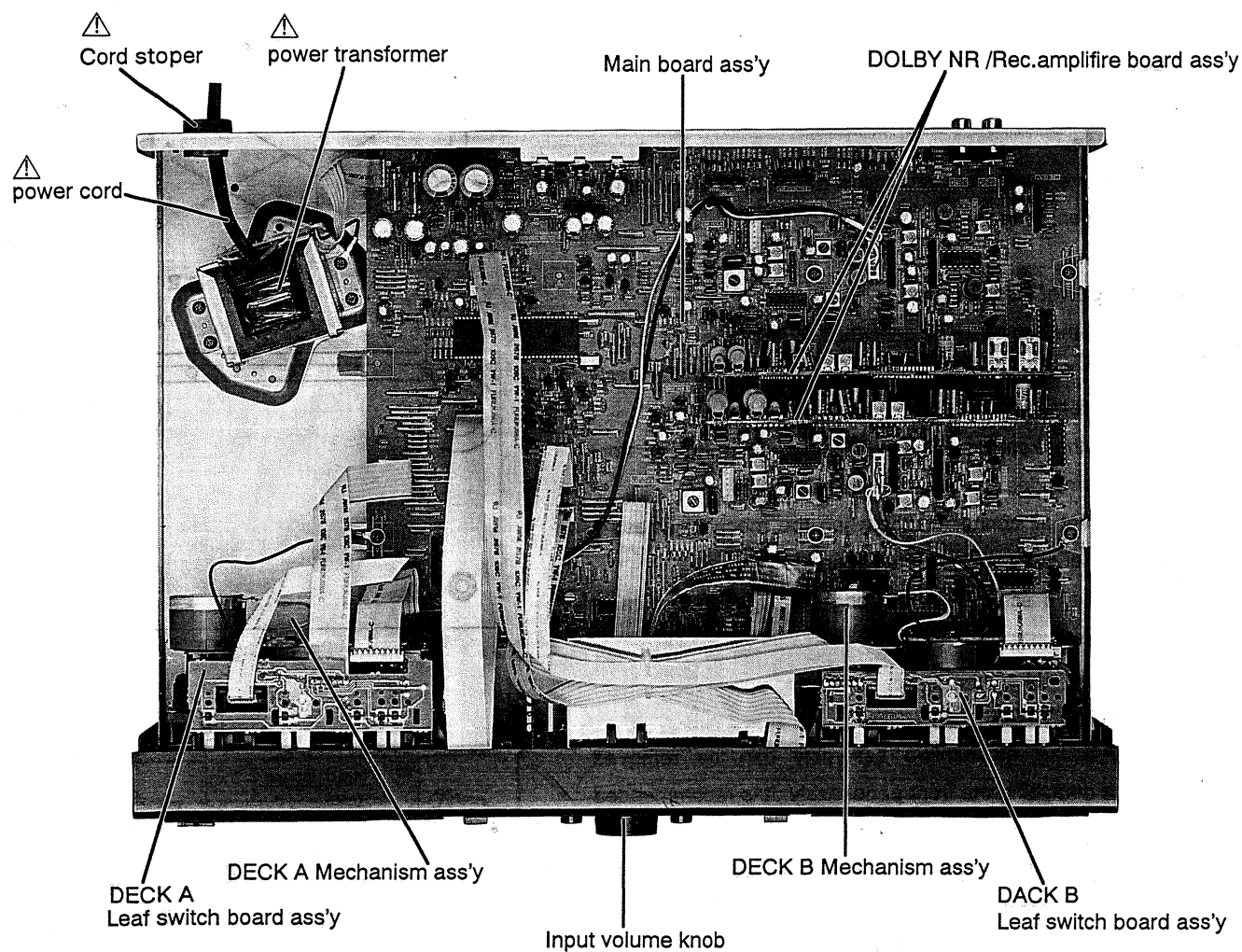
1. Press the O REC/REC MUTE button when finished dubbing a tune.  
Deck B automatically enters the record muting mode and leaves a non-recorded section of about 4 seconds then enters the record-pause mode.
2. Press the ■ (stop) button of deck A and search for the next tune you want by using the ▶▶, ◀◀ or PLAY button. Then stop the cassette just before the beginning of the tune.
3. Press the same SYNCHRO DUBBING button pressed before the pause again, and dubbing will start.

### Notes at dubbing

1. Normal-speed dubbing is recommended to obtain good sound quality.
2. Television receivers placed close to the deck may cause interference on the recorded signal when the deck is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.



# 1 Location of Main Parts



## 2 Removal of main parts

### ■ Enclosure Section

#### ◆ Top cover(see Fig 2 - 1)

1. Remove four screws ① retaining the top cover from both side.
2. Remove two screws ② retaining the top cover from the back side.
3. To remove the top cover ,slide in direction of arrow and lift away(refer to Fig 2 - 1)

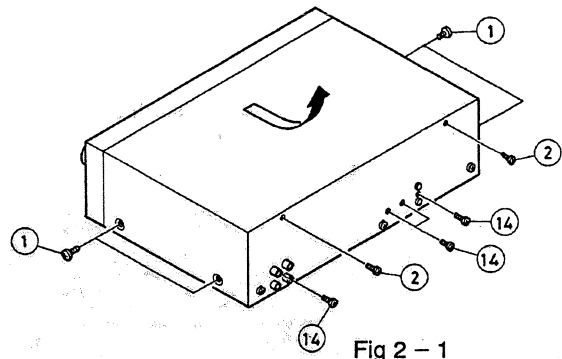


Fig 2 - 1

#### ◆ Front panel assembly

1. Remove the top cover as described in above.
2. Remove three screws ④ retaining the front panel ass'y from bottom side.
3. Release the front panel ass'y from two pawls in the front and bottom sides and draw it to the front side.
4. Disconnect all connectors between the mechanism ass'y, front panel ass'y and the main board ass'y.
5. Remove two screws ③ retaining the lug ass'y and main board ass'y.

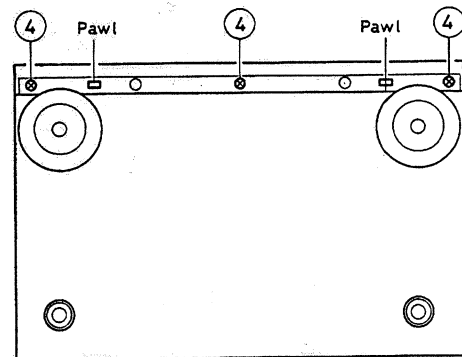


Fig 2 - 2

#### ◆ Mechanism assembly

★ Although the mechanism assembly can be removed without detaching the front panel ass'y, it is recommended to detach the front panel ass'y to do the work with ease.

1. Remove four screws ⑤ from the corners of the mechanism.(see Fig 2 - 5)
2. Open the door and remove the mechanism ass'y.  
(At this time, door lock arm spring and door lock arm are removed together with.)
3. For moving the mechanism ass'y only ,disconnect the following wirings.

a) Mechanism ass'y side(Refer to Fig 2 - 4)

Top side connector of the cam switch board(CN2).

Connector of the motor board(CN1).

b) Main board ass'y side(Refer Fig2 - 3)

Disconnect wire coming from the leaf switch from CN703/CN704 at deckB and CN701/CN702 at deckA.

Disconnect wire coming from the head relay board CNA81 at deckA and CNA85 at deckB.

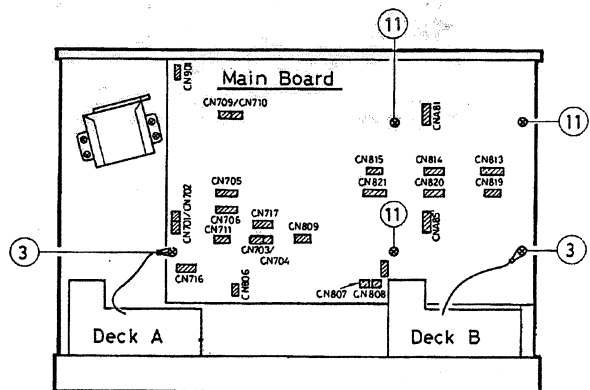
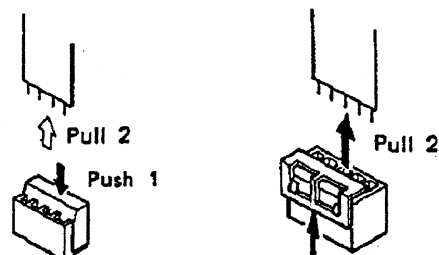


Fig 2 - 3



Push up with a screwdriver, etc. 1

Fig2 - 4

### ◆ Eject arm ass'y

1. Remove two screws ⑫ retaining the shield plate.
2. Remove two screws ⑦ retaining the eject arm ass'y and pull it out.(DECK A, DECK B)

### ◆ Mechanism holder and door ass'y

1. Remove four screws ⑧ retaining the mechanism holder.
2. Remove the damper ass'y(for easy reassembling work).  
Insert an ordinary ( - )screwdriver or the like in to the gap between the damper and the front panel to disengage the pawl , and draw the damper ass'y outwards.(see Fig 2 - 6)
3. Remove the arm shaft of the cassette holder (door ass'y)from the mechanism holder.(The door spring is engaged with the door side by the bent side.)

### ◆ FL board/Volume board ass'y

1. After removing the mechanism holder, proceed to the following steps.
2. Pull out the INPUT volume knob.
3. Remove seven screws ⑨ retaining the p.c.board.
4. Lift the board right upwards to remove it since it is connected to the mechanism control key board with connector pins(CN712/CN713).

### ◆ Headphone and MIC jack ass'y

1. Remove the PLAY button.
2. Pull the jack ass'y outwards while pushing it down toward the bottom side to remove it.

### ◆ Mechanism keyboard ass'y

1. Remove two screw ⑩ retaining the board ass'y.
2. Do the same for the other side.

### ◆ Main board ass'y (see Fig2 - 3, Fig 2 - 1)

1. Remove three screws ⑪ retaining the board.
2. Remove four screws ⑭ retaining the board to the rear panel(see Fig.2 - 1) .

### ◆ DOLBY NR / REC board ass'y

To remove the DOLBY NR / REC board on the Main board, spread pawls of the board connector outwards while taking out the board ass'y.

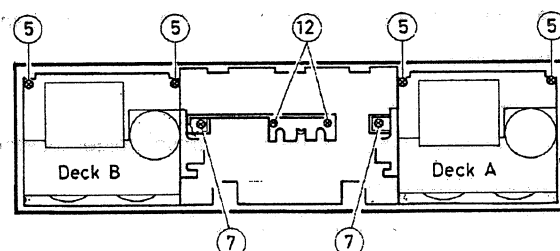
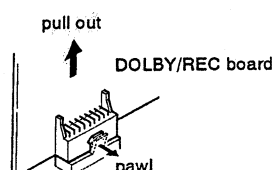


Fig 2 - 5

How to remove damper

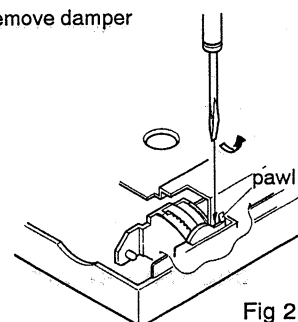


Fig 2 - 6

How to engage the door and eject spring

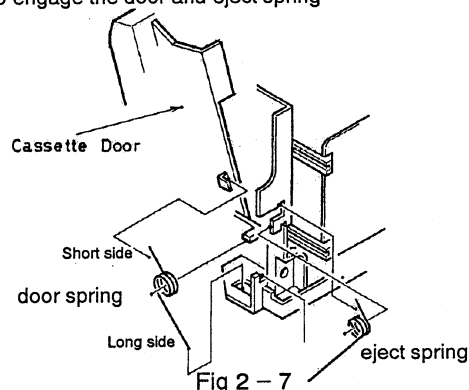


Fig 2 - 7

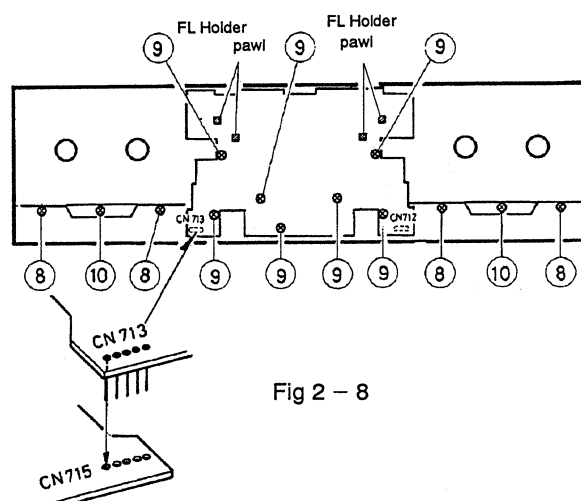


Fig 2 - 8

● Reassembling procedure of the front panel ass'y

1. Attach the mechanism control switch board to the panel with one screw.
2. Install the FL board .
3. Put the door ass'y and the mechanism holder together with on the front panel.
4. Attach the mechanism holder to the front panel ass'y with two screws.
5. Engage the door spring properly.
6. Install the damper .(Push the pawl side last to engage it.)
7. Install the eject arm ass'y.
8. Install the mechanism ass'y
9. Engage the eject spring.

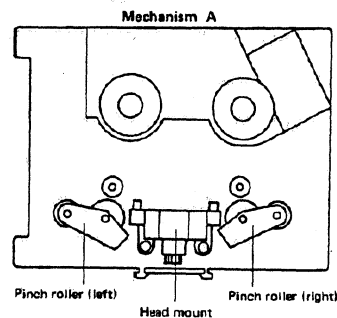


Fig 2 – 9

■ Cassette mechanism section

◆ Head mount assembly (Fig2-9, Fig2-10)

1. Release the head wire relay board from two pawls.
2. Remove two screws ① retaining the head mount ass'y.
3. Remove the head gear (1) and head spring.

◆ Pinch foller assembly (Fig2-9, Fig2-11)

1. Remove return spring by disengaging the pawl hooking it.
2. Remove the pinch roller spring.
3. For reengaging the spring, refer to the figures (A) and (B).  
( see Fig 2 – 11)

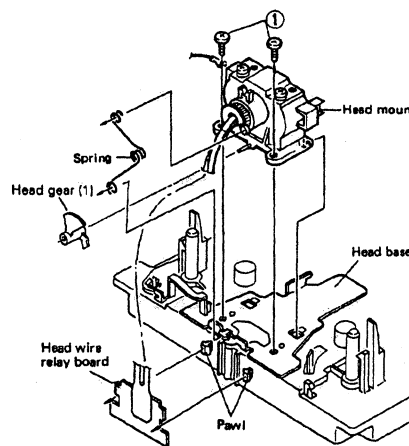


Fig 2 – 10

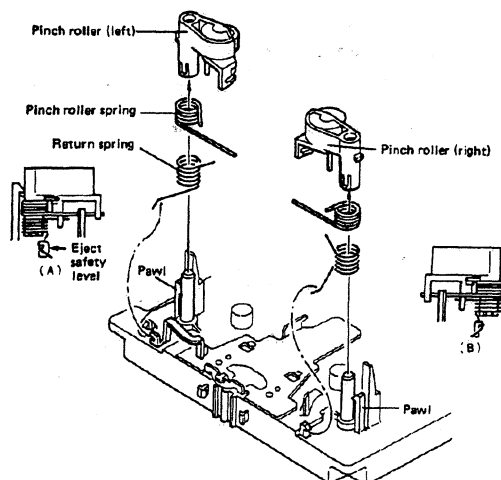


Fig 2 – 11

◆ **FM bracket/Capstan motor assembly**(Fig.2-12,2-13)

1. Remove soldering to separate the drive motor and the motor ass'y. (Mechanism A or B)
2. Remove one screw ② retaining the FM bracket to-gether.
3. Remove two screws ③ and disengage five pawls, and then the FM bracket and the capstan belt (mechanism A and B) can be removed.
4. Remove two screws ④ retaining the capstan motor from the FM bracket .
5. For reengaging the capstan belt, refer to Fig.2-14.

◆ **Actuator motor assembly** (Fig.2-15)

1. Release the actuator motor ass'y from three pawls.

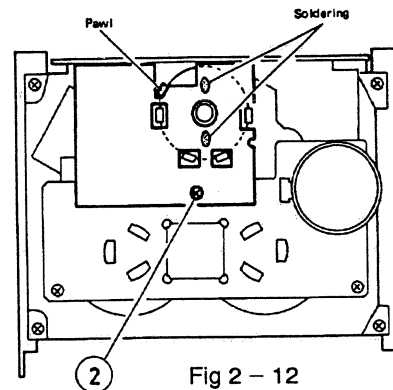


Fig 2 - 12

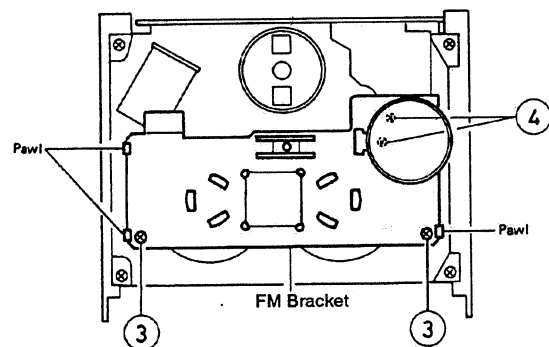


Fig 2 - 13

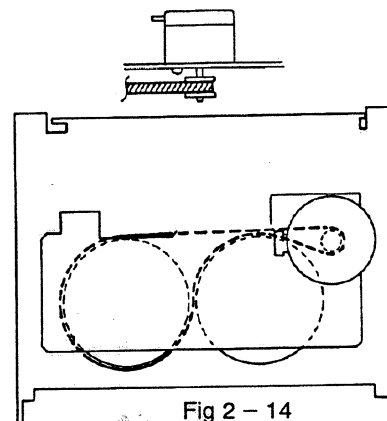


Fig 2 - 14

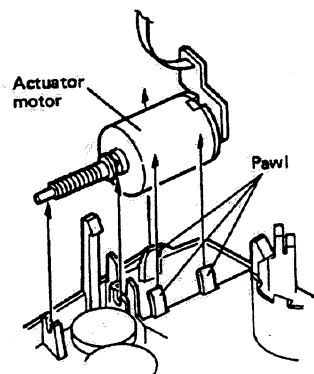


Fig 2 - 15

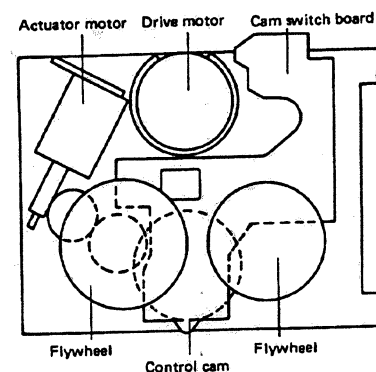


Fig 2 - 16

◆ **Flywheel assembly** (Fig.2-16, Fig.2-17)

1. Remove washers from the capstan shaft and draw them out.

◆ **Drive motor** (Fig.2-15, Fig.2-18)

1. Pull out the gear and arm assembly from the drivemotor shaft.
2. Remove screw ⑤ retaining the drive motor.
3. Disengage four pawls to release the drive motor.

◆ **Cam switch board** (Fig.2-16, Fig.2-19)

1. Release the cam switch board from six pawls.
2. For gearing between the cam switch board and control cam, see the magnified illustration in a circle.

◆ **Actuator gear (large)** (Fig.2-16, Fig.2-20)

1. Release the actuator gear (large) from three pawls.

◆ **Control cam** (Fig.2-16, Fig.2-20)

1. Release the control cam from two pawls.
2. For assembling the control cam, see the magnified illustration in a circle.

◆ **Actuator gear (small)** (Fig.2-16, Fig.2-20)

1. Release the actuator gear (small) from two pawls.

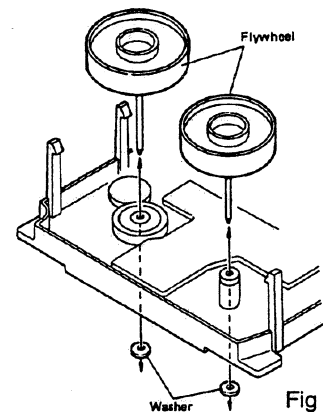


Fig 2 - 17

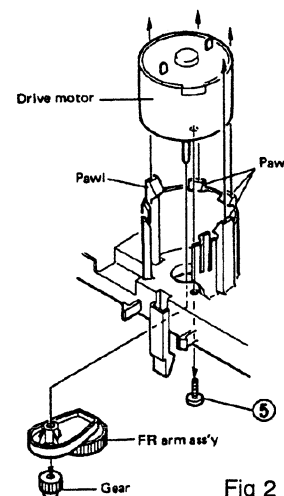


Fig 2 - 18

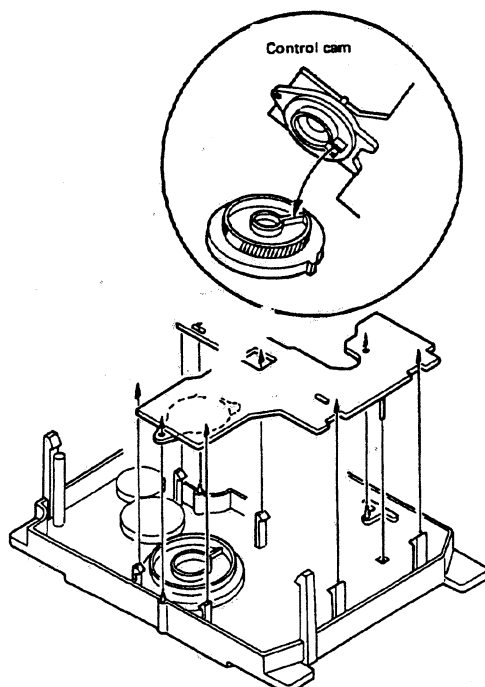


Fig 2 - 19

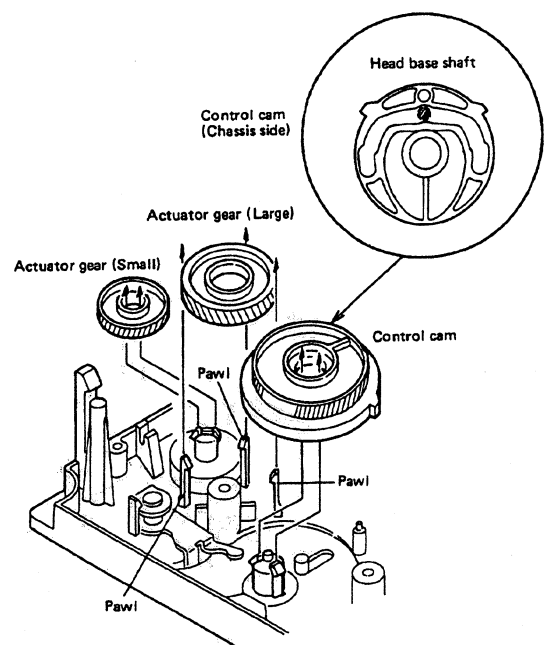


Fig 2 - 20

### 3 Main Adjustment

#### ◆ Measuring instruments required for adjustment

- (1) Low-frequency oscillator(oscillation frequency 50Hz~20kHz, 0dB output with 600  $\Omega$  impedance)
- (2) Attenuator(600  $\Omega$  impedance)
- (3) Electronic voltmeter
- (4) Standard tapes  
VTT712(tape speed, wow and flutter measurement)  
VTT724(reference level)  
TMT735, VTT739(playback frequency)  
VTT704(12.5kHz)(azimuth)  
TMT6447, TMT6448(Music scan)
- (5) Recording reference tapes  
TS-12(UD1), TS-10(AC-513)(SA),  
TS-11(AC-712)(MA)or equivalent
- (6) 600  $\Omega$  resistors(for attenuator matching)
- (7) Distortion meter(bandpass filter)
- (8) Torque gauge(cassette)for CTG-N, TW2111, TW2121 and TW2231 mechanism adjustments.
- (9) Wow & flutter meter
- (10) Frequency counter meter
- (11) M300 gauge
- (12) Band pass filter

#### ◇ Power supply voltage

Set the line voltage selector switch to 240V/ 230V/  
220V/ 127V/ 120V/ 110V according to  $\longleftrightarrow$   
your local voltage.

AC240V, 50/60Hz :A/B version

AC230V, 50/60Hz :E/EN/G version

AC120V, 60Hz :C/J version

AC230/127/110V, 50/60Hz:U/UT version

- (13) Standard position of the switch and volume knob

Switches and volume knobs Setting position.

INPUT LEVEL	:	MAXIMUM
DOLBY NR SWITCH	:	OFF
BALANCE CONTROL	:	CENTER
PITCH CONTROL	:	CENTER
TIMER SWITCH	:	OFF
MIC LEVEL	:	MINIMUM
H.PHONE VOLUME	:	MAXIMUM

- (14) Standard level (0dBs) is 0.775V unless otherwise specified.

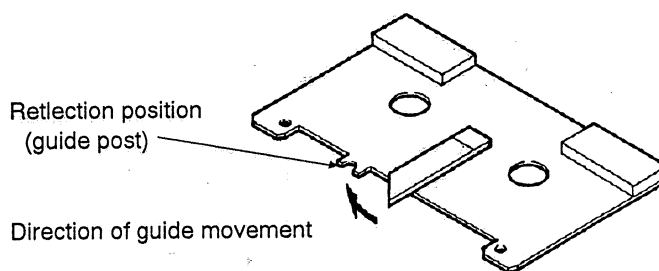
#### ◆ Mechanical adjustment

After head replacements,use the following method to check after the hight, direction (rough of each head have been adjusted.

Tape travel adjustment

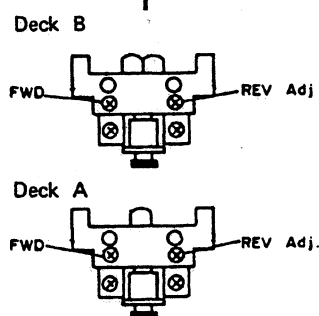
Use the M300lig. Be careful not to damage the head.

#### Tape guide adjustment method



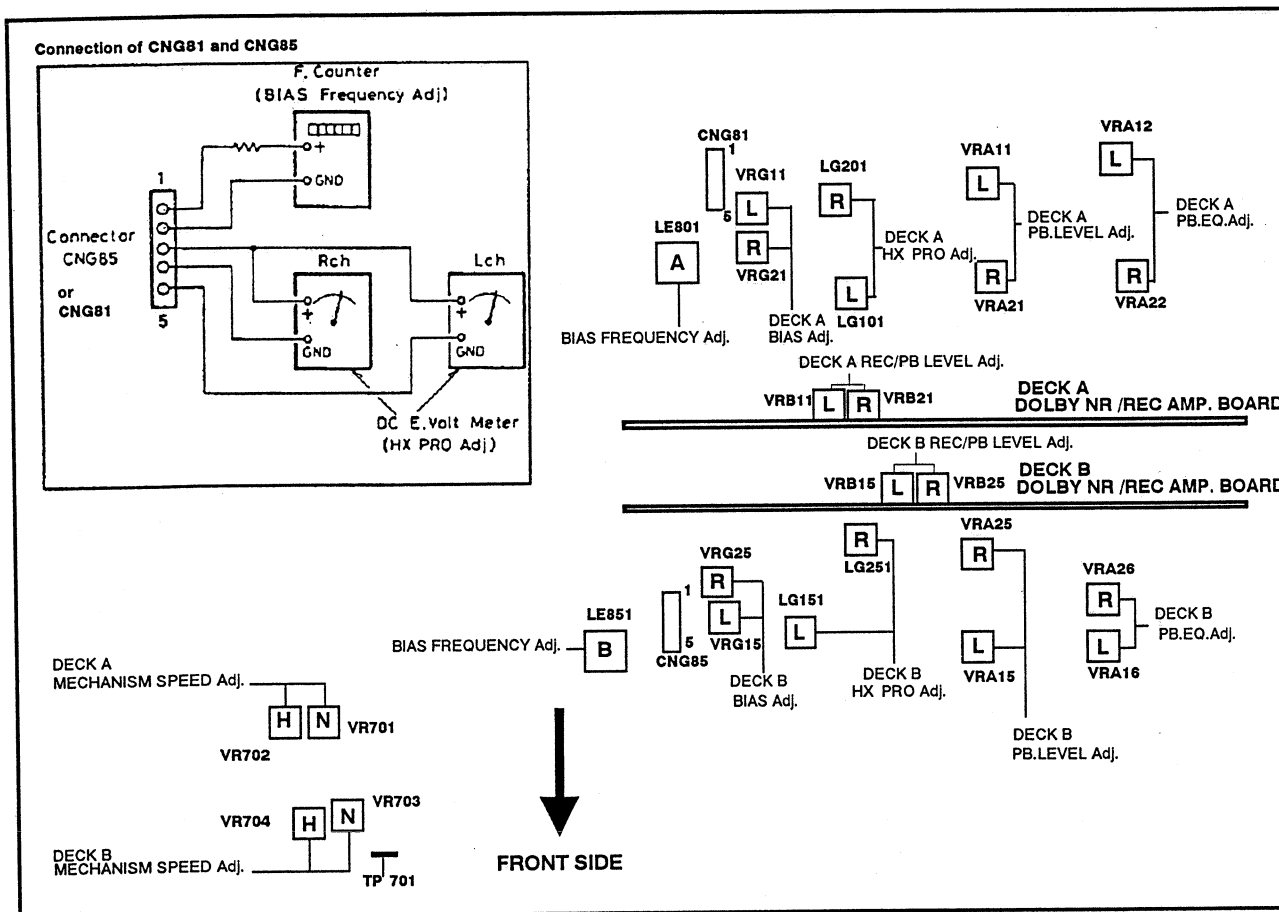
Use the jig to move in the direction of the arrow.

## ◆ Mechanism Adjustment

Item	Conditions	Adjustment and Confirmation	Standad value	Adjust point
Adjusting Head azimuth	Test tape :VTT704 (12.5kHz)	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT704 (12.5kHz) test tape. 3. Adjust the head angle with the screw (FWD and REV) until the reading of the electronic voltmeter becomes maximum for both channels (phase difference must be "0".) 4. Repeat the adjustment in FWD and REV modes as well as for the dechs A and B.	Maximum  	Screws (FWD, REV)
Adjusting motor speed	1.For high speed adjustment, set the deck for play mode and shortcircuit between TP - 701 and GND. 2.Do not do anything while TP701 and GND are shortcircuited. • Pitch control: Center	1. Connect a frequency counter to the LINEOUT terminals. 2. Perform normal speed adjustment first, and then do high speed adjust- ment 3.Play back the VTT712 test tape. 4.Adjust for deck A : Ajust VR701 for normal speed at 3000Hz, and VR702 for high speed at 6000Hz Adjust for deck B : Adjust VR703 for normal speed at 3000Hz, and VR704 for high speed at 6000Hz. 5.Difference in FWD and REV frequen- cies must be less than 45Hz.	Normal speed: Deck A; $3000 \pm 15\text{Hz}$ Deck B; $3000 \pm 15\text{ Hz}$ High speed : Deck A; $6000 \pm 30\text{ Hz}$ Deck B ; $6000 \pm 30\text{Hz}$	Deck A : Normal;VR701 High ; VR702 Deck B; Normal;VR703 High; VR704
Checking wow and flutter		Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.18% (WRMS).	0.18% (WRMS)	
Checking play back torque		Employ a torque testing cassette tape (TW2111[FWD] / TW2121[REV] for the checking, or remove the cassette cover and use a torque gauge.	27 – 60 gr – cm	
Checking fast for – ward/rewind torque		Measure the torque in the fast forward mode in the same manner as in the above. Test cassette : TW2231	90 – 200gr – cm	



## ◆ Location of Adjusting point

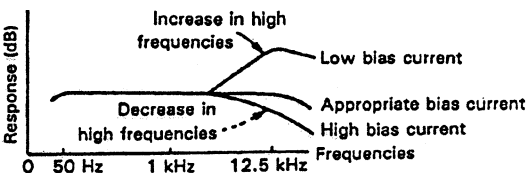


## ■ Electrical Circuit Adjustment Procedures

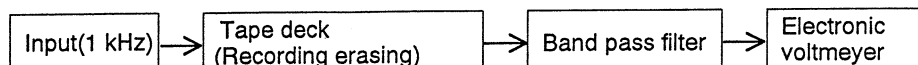
Make the following adjustments after the tape trel and head angle adjustments.

- In principle, the adjustments should be made in the order described.
- Adjustments required head replacement are marked with an asterisk(\*)

Item	Adjustment and Checking Method		Frequency Level	Output Value & Deviation
DOLBY NR circuit recording check	Signal Input : LINE IN cal. level 400Hz - 8dBs Output terminal : ICD81, ICD85( 15 & 16 pin)	DOLBY B (REC)	1 kHz Cal - 40dB	+5.7dB ± 2dB
			5kHz Cal - 20dB	+3.5dB ± 1.5dB
			1kHz Cal 0dB	0dB ± 0.5dB
		DOLBY C (REC)	1 kHz Cal - 40dB	+16dB ± dB
			5kHz Cal - 20dB	+2.9dB " ± 2.9dB
			1kHz Cal 0dB	0dB ± 1dB

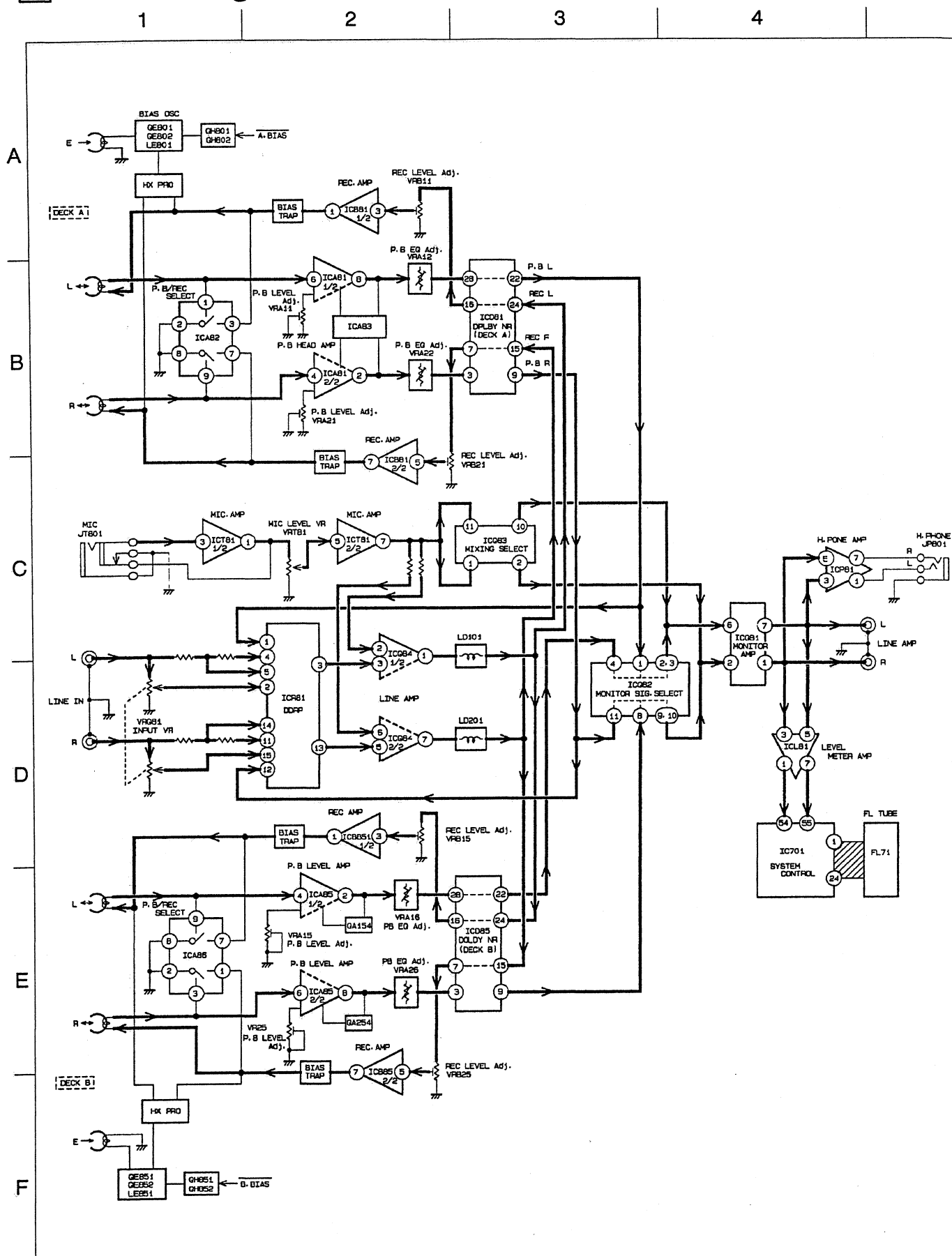
Item	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
*1 Playback level adjustment	Test tape VTT724:1kHz Measurement point LINE OUT NR Switch : OFF	Play back VTT724, then confirm that the level at LINE OUT is $-7.5\text{dB} \pm 0.5\text{dB}$ . Adjust VRA15, VRA25 and VRA11, VRA21 so that LINE OUT level be come $-7.5\text{dB}$ .	LINE OUT $-7.5\text{dB} \pm 0.5\text{dB}$ H.Phone out $-24\text{dB} \pm 2\text{dB}$	Deck A L : VRA15 R : VRA25 Deck B L : VRA11 R : VRA21
*2 Playback frequency response adjustment	Test tape TMT735 : 1kHz/12.5kHz VTT739 : 1kHz/63Hz Measurement point LINE OUT NR Switch : OFF	Playback TMT735 test tape, and adjust VRA16,VRA26 (deck B) and VRA12, VRA22 (deck A) so that deviation of 12.5kHz to that of 1kHz is $0.5 \pm 0.5\text{dB}$ . Then, playback VTT739 test tapeto confirm that diviation of 63Hz to 1kHz is $+2 \pm 3\text{dB}$ .	With 12.5kHz as reference, $0.5 \pm 0.5\text{dB}$ at 1kHz 63Hz (check): $+2 \pm 3\text{dB}$	Deck B L : VRA16 R : VRA26 Deck A L : VRA12 R : VRA22
*3 Bias frequency adjustment	Frequebcy counter Measurement point CNG 81(deck A) CNG 85(deck B) TAPE switch : METAL	Connect a frequency counter to the CNG81 or CNG85 and adjust LE801 or LE851 so that the counter reads 95kHz.	$95\text{kHz} \pm 0.5\text{kHz}$	Deck B LE851 Deck A LE801
*4 Slave oscillation (HX PRO) adjustment	DC voltmeter Measurement point CNG 81(deck A) CNG 85(deck B)	This step must be preformed after the bias frequency adjustment. Load a metal tape and set the deck to the recording mode. Adjust for deck B Adjust LG151 and LG251 to minimize respective voltages fo CNG85(PIN 3 – 5),L ch and (PIN3 – 4),R ch Adjust for deck A Adjust LG101 and LG201 to minimize respective voltages fo CNG81(PIN 3 – 5),L ch and (PIN3 – 4),R ch	Minimum	Deck B L : LG151 R : LG251  Deck A L : LG101 L : LG201
*5 REC/PB frequency response adjustment	LINE INPUT level : Ref. $-20\text{dB}$ ( $-39\text{dB} \pm 2\text{dB}$ ) MIC INPUT level : Ref. $-20\text{dB}$ ( $-66\text{dB} \pm 3\text{dB}$ ) NR switch : OFF	This step must be performed after the slave osillation adjustment. record the 1kHz and 12.5kHz signals at the level of $-20\text{dB}$ (20dB lower than the reference level). Playback the recorded signals, adjust VRG15, VRG25 and VRG11, VRG21 so that the level of the 12.5kHz signal is $0 \pm 0.5\text{dB}$ to the level of the 1kHz signal.  	12.5kHz level : $0 \pm 0.5\text{dB}$ higher than the 1kHz level.	Deck B L : VRG15 R : VRG25 Deck A L : VRG11 R : VRG21

Item	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
*6 Recording level adjustment	Input level : LINE - 19dBs $\pm$ 2dB MIC - 68dBs $\pm$ 3dB NR switch :OFF TAPE switch : Normal	1) Apply 1kHz signal to the LINE IN terminals, record 1kHz signal at - 19dBs input for both (L and R) channels on a normal tape. 2) Playback the recorded part, and adjust the recording level controls so that LINEOUT terminal level becomes - 8dBs. Then adjust for VRB15, VRB25 and VRB11, VRB21 so that LINE OUT terminal level becomes - 8dBs.	Normal : - 8dBs $\pm$ 0.5dB CrO2/Metal : - 8dBs $\pm$ 2dB	Deck B L : VRB15 R : VRB25 Deck A L : VRB11 R : VRB21
7 Maximum output check		Supply 1kHz signal LINE IN terminal in the Rec. monitoring mode, and non-clipped signal level at LINE IN terminal.	LINE OUT : more than 8dBs H.PONES OUT: more than - 16 dBs	
8 DDRP check	Light the DDRP indicator	With the DDRP switch set to ON, supply 1kHz - 10.8dBs input signal in the rec paus mode and check the signal level at the LINEOUT terminal.	Normal : - 11dBs $\pm$ 2dB Meetal : - 8dBs $\pm$ 2dB	
	Put out the DDRP indicator	With the DDRP switch set to OFF, perform the same check as in the above step.	Normal : +1.2dBs $\pm$ 2dB Metal : +1.2dBs $\pm$ 2dB	
9 Checking record/playback distortion		1) Record a 1kHz, - 19dBs signal to LINE IN terminals. 2) Playback the recorded part, Check the output with a distortion meter to see if the value conforms to the standard value.	Normal : Less than 2% CrO2/Metal : Less than 3%	
10 Checking signal to noise ratio recording playback		1) Record a 1kHz, - 19dBs signal, stop the input by disconnecting from the terminal to perform non-signal recording. 2) Playback the recorded part. Measure the - 8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.	Normal / CrO2 : More than 41dB Metal : More than 41dB	
11 Checking erasing coefficient		1) Apply a 1kHz, +20dB signal to the LINE IN terminals. 2) Perform recording with the signal enhanced by 20dB 3) Erase a part of the recording. 4) Measure the output difference between the erased part and non-signal part to compare with an electronic voltmeter. For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter.		

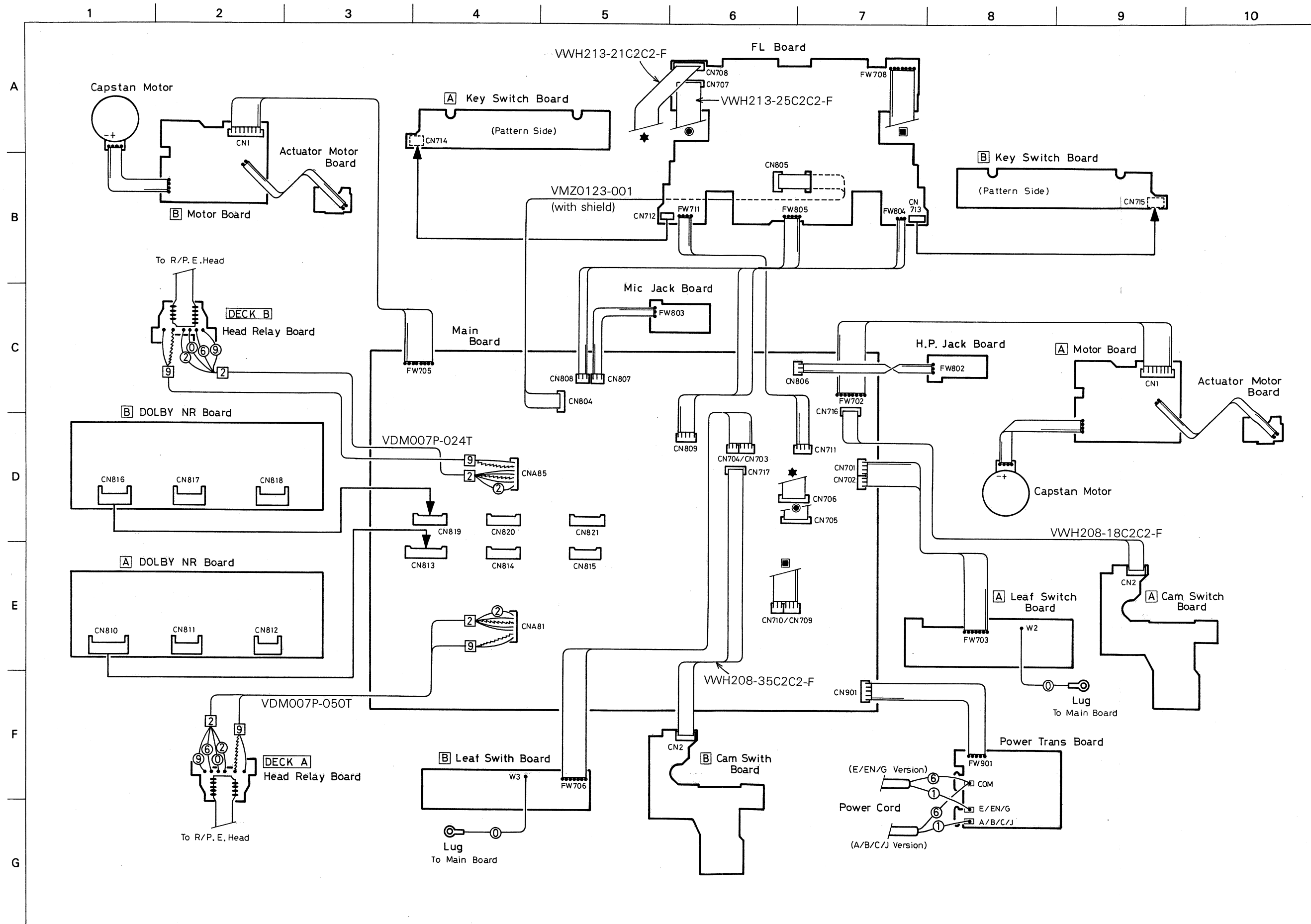


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## 4 Block Diagram

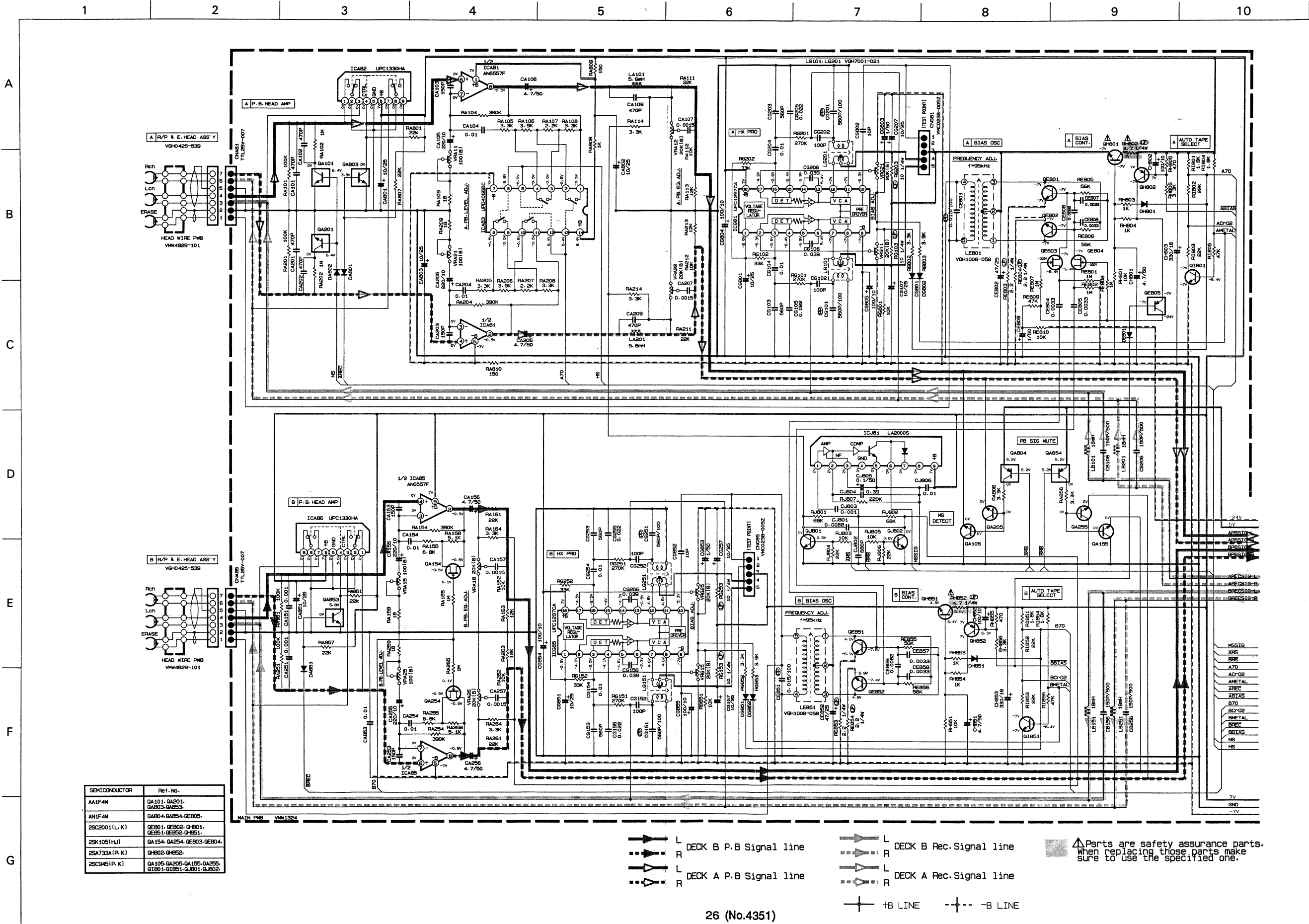


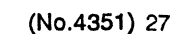
## 5 Wiring Connections



6

Standard Schematic Diagram







TD - W709TN C/J





1 2 3 4 5 6 7 8 9 10

A

B

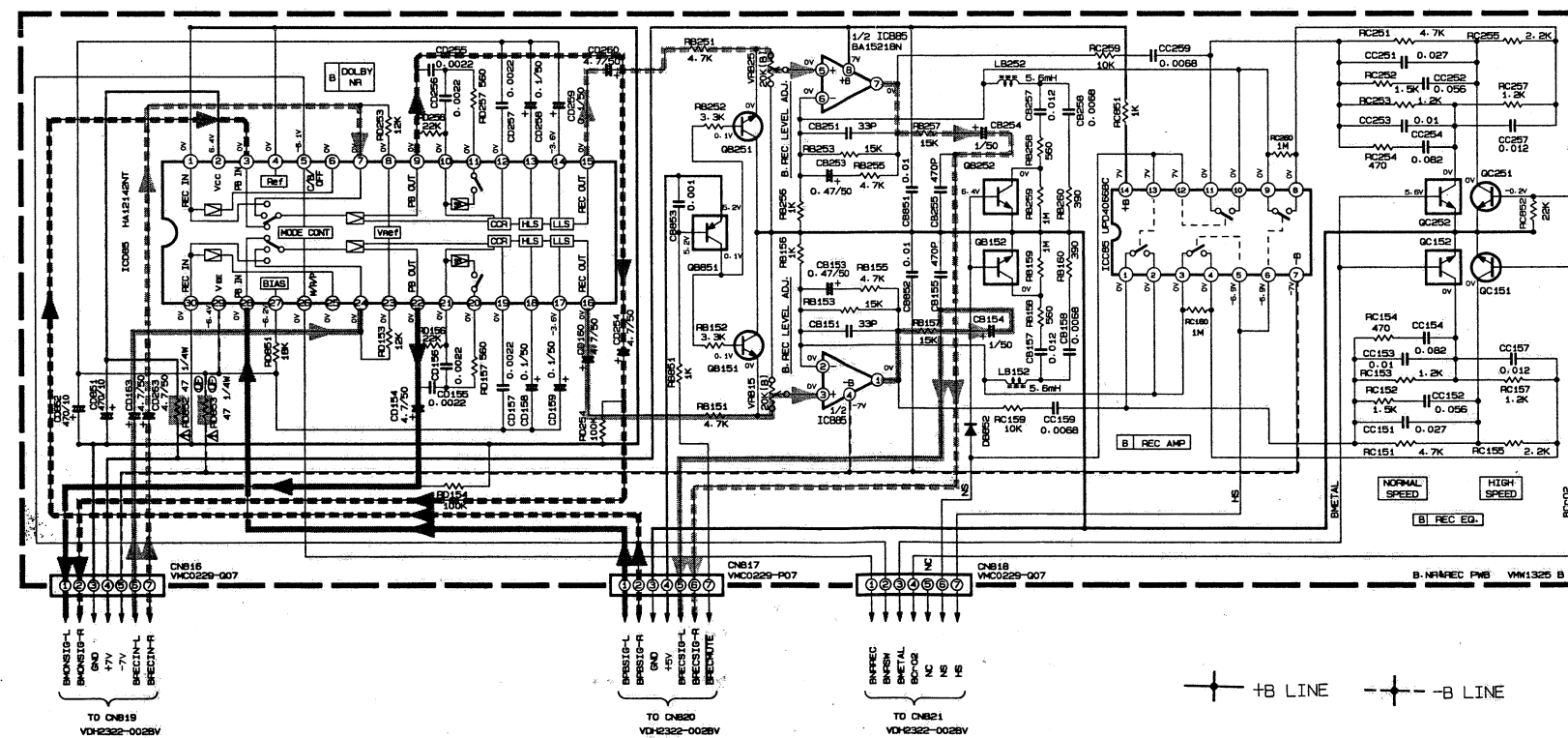
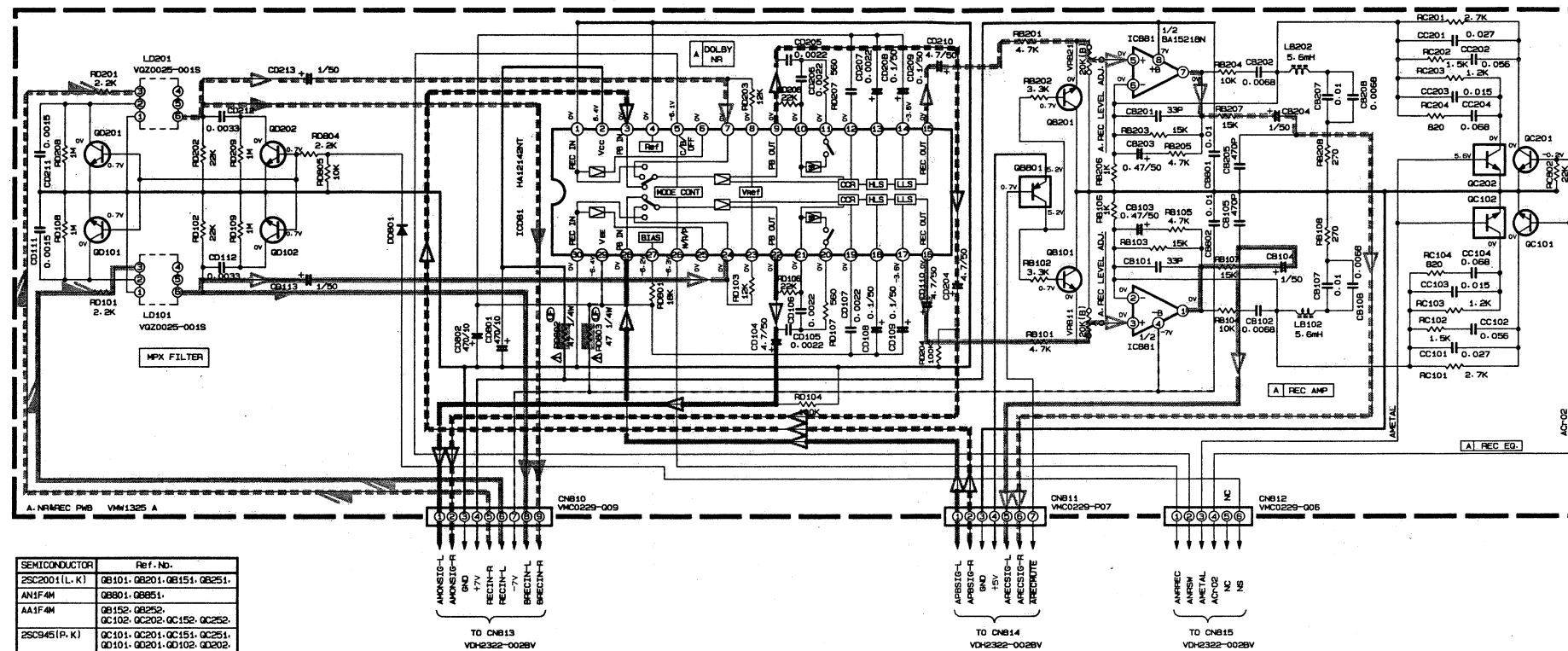
C

D

E

F

G

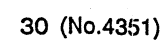


- DECK B P.B Signal line
- DECK A P.B Signal line
- DECK A and DECK B Rec.Signal line
- DECK B Rec.Signal line
- DECK A Rec.Signal line

Parts are safety assurance parts.  
When replacing those parts make  
sure to use the specified one.

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1	2	3	4	5	6	7	8	9	10
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▲ Parts are safety assurance parts.

When replacing these parts, make sure to use the specified one.

# Main Board Parts List

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CA802	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CA803	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CA851	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CA853	QCF11HP-103	C CAPACITOR	.010MF +100%-0%	
CB156	QCS32HJ-151ZV	C CAPACITOR	150PF 5% 500V	
CB256	QCS32HJ-151ZV	C CAPACITOR	150PF 5% 500V	
CB801	QFP32AJ-153ZM	PP CAPACITOR	.015MF 5% 100V	
CB802	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
CB804	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
CB805	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
CB806	QFLC1HJ-822ZM	M CAPACITOR	8200PF 5% 50V	
CB807	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
CB808	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
CB809	QETC1EM-106ZN	E CAPACITOR	1.0MF 20% 50V	
CB851	QFP32AJ-153ZM	PP CAPACITOR	.015MF 5% 100V	
CB852	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
CB856	QFLC1HJ-822ZM	M CAPACITOR	8200PF 5% 50V	
CB857	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
CB858	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
CF701	EFO-GB00414	CERAMIC RESONATOR	(F=8MHz)	
CG101	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
CG102	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
CG103	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
CG104	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CG105	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
CG106	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
CG107	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CG151	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
CG152	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
CG153	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
CG154	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CG155	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
CG156	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
CG157	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CG201	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
CG202	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
CG203	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
CG204	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CG205	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
CG206	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
CG207	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CG251	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
CG252	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
CG253	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
CG254	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CG255	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
CG256	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
CG257	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CG801	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CG802	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
CG803	QETC1EM-106ZN	E CAPACITOR	1.0MF 20% 50V	
CG804	QETC1EM-107ZN	E CAPACITOR	100MF 20% 10V	
CG805	QETC1EM-107ZN	E CAPACITOR	100MF 20% 10V	
CG851	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
CG852	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	

BLOCK NO. 02

# Main Board Parts List

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 701	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 702	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
C 703	QCF11HP-103	C CAPACITOR	.010MF +100%-0%	
C 704	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
C 705	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
C 706	QETC1EM-224ZN	E CAPACITOR	.22MF 20% 50V	
A 901	QCF11HP-103	C CAPACITOR	.010MF +100%-0%	
C 902	QCF11HP-103	C CAPACITOR	.010MF +100%-0%	
A 903	QETB1EM-338N	E CAPACITOR	3300MF 20% 25V	
A 904	QETB1EM-338N	E CAPACITOR	3300MF 20% 25V	
C 906	QCF11HP-103	C CAPACITOR	.010MF +100%-0%	
C 907	QETC1EM-107ZN	E CAPACITOR	100MF 20% 25V	
C 908	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
C 909	QETC1AM-475ZN	E CAPACITOR	4.7MF 20% 50V	
C 910	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
C 911	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
C 914	QETC1EM-337ZN	E CAPACITOR	330MF 20% 25V	
C 915	QETC1EM-227ZN	E CAPACITOR	220MF 20% 50V	
C 917	QETC1EM-107ZN	E CAPACITOR	100MF 20% 25V	
C 918	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
C 920	QETC1EM-107ZN	E CAPACITOR	100MF 20% 16V	
C 921	QETC1EM-477ZN	E CAPACITOR	470MF 20% 16V	
C 923	QETC1EM-337ZN	E CAPACITOR	330MF 20% 16V	
C 924	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 928	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
C 931	QCB11K-151Y	C CAPACITOR	150PF 10% 50V	
CA101	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
CA102	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
CA103	QCB11K-151Y	C CAPACITOR	150PF 10% 50V	
CA104	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CA105	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
CA106	QETC1EM-475ZN	E CAPACITOR	4.7MF 20% 50V	
CA107	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
CA109	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
CA151	QFLC1HJ-102ZM	M CAPACITOR	1000PF 5% 50V	
CA153	QCB11K-151Y	C CAPACITOR	150PF 10% 50V	
CA154	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CA155	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
CA156	QETC1EM-475ZN	E CAPACITOR	4.7MF 20% 50V	
CA157	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
CA201	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
CA202	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
CA203	QCB11K-151Y	C CAPACITOR	150PF 10% 50V	
CA204	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CA205	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
CA206	QETC1EM-475ZN	E CAPACITOR	4.7MF 20% 50V	
CA207	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
CA209	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
CA251	QFLC1HJ-102ZM	M CAPACITOR	1000PF 5% 50V	
CA253	QCB11K-151Y	C CAPACITOR	150PF 10% 50V	
CA254	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
CA255	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
CA256	QETC1EM-475ZN	E CAPACITOR	4.7MF 20% 50V	
CA257	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
CA801	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	

J - W708BK A/B/E/EN/G/U/UT  
 D - W709TN C/J

BLOCK NO. 0011111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C8805	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	C8806	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	C8807	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	C8810	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CT801	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CT802	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CT803	QCB81HK-151Y	C CAPACITOR	150PF 10% 50V	
	CT804	QCB81HK-151Y	C CAPACITOR	150PF 10% 50V	
	CT805	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CT806	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CT807	QCVB1CM-103Y	M CAPACITOR	.010MF 20% 16V	
	CT808	QFLC1HJ-222ZM	C CAPACITOR	2200PF 5% 50V	
	CT810	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	D 701	1SS133	DIODE		
	D 702	1SS133	DIODE		
	D 703	1SS133	DIODE		
	D 704	1SS133	DIODE		
	D 705	1SS133	DIODE		
	D 706	1SS133	DIODE		
	D 707	1SS133	DIODE		
	D 708	1SS133	DIODE		
	D 709	1SS133	DIODE		
	D 710	1SS133	DIODE		
	D 711	1SS133	DIODE		
	D 712	1SS133	DIODE		
	D 713	1SS133	DIODE		
	D 714	1SS133	DIODE		
	D 715	1SS133	DIODE		
	D 716	1SS133	DIODE		
	D 717	1SS133	DIODE		
	D 718	1SS133	DIODE		
	D 719	1SS133	DIODE		
	D 720	1SS133	DIODE		
	D 725	1SS133	DIODE		
	D 726	1SS133	DIODE		
	D 730	1SS133	DIODE		
	D 731	1SS133	DIODE		
	D 732	1SS133	DIODE		
	D 733	1SS133	DIODE		
	D 734	1SS133	DIODE		
	D 735	1SS133	DIODE		
	D 736	1SS133	DIODE		
	D 737	1SS133	DIODE		
	D 738	1SS133	DIODE		
	D 739	1SS133	DIODE		
	D 740	1SS133	DIODE		
A	D 901	1SR35-100A	SI DIODE		
A	D 902	1SR35-100A	SI DIODE		
A	D 903	1SR35-100A	SI DIODE		
A	D 904	1SR35-100A	SI DIODE		
	D 905	1SS133	DIODE		
	D 906	1SS133	DIODE		
	D 907	MT73-6JA	Z-DIODE		
	D 908	1SS133	DIODE		
A	D 909	1SR35-100A	SI DIODE		

BLOCK NO. 0011111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CG853	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CG854	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CG855	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CH801	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CH802	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CH803	QETC1CM-337ZN	E CAPACITOR	330MF 20% 16V	
	CH851	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CH852	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CJ801	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
	CJ802	QCS11HJ-681	C CAPACITOR	680PF 5% 50V	
	CJ803	QFLC1HJ-102ZM	M CAPACITOR	1000PF 5% 50V	
	CJ804	QEV71HJ-394ZM	FILM CAPACITOR	.39MF 5% 50V	
	CJ805	QETC1HM-104ZN	E CAPACITOR	.10MF 20% 50V	
	CJ806	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CL101	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CL201	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CL801	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CL802	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CNA81	TTL25V-007	CONNECTOR		
	CNA85	TTL25V-007	CONNECTOR		
	CN851	VMC0166-003Z	CONNECTOR		
	CN852	VMC0166-003Z	CONNECTOR		
	CN701	VMC0166-004Z	CONNECTOR		
	CN702	VMC0166-003Z	CONNECTOR		
	CN703	VMC0166-004Z	CONNECTOR		
	CN704	VMC0166-003Z	CONNECTOR		
	CN705	VMC0163-013	CONNECTOR		
	CN706	VMC0163-013	CONNECTOR		
	CN709	VMC0166-004Z	CONNECTOR		
	CN710	VMC0166-003Z	CONNECTOR		
	CN711	VMC0166-004Z	CONNECTOR		
	CN716	VMC0163-008	CONNECTOR		
	CN717	VMC0163-008	CONNECTOR		
	CN804	VMC0163-007	CONNECTOR		
	CN806	VMC0166-003Z	CONNECTOR		
	CN807	VMC0166-003Z	CONNECTOR		
	CN808	VMC0166-003Z	CONNECTOR		
	CN809	VMC0166-005Z	CONNECTOR		
	CN813	VMC0229-S09	CONNECTOR		
	CN814	VMC0229-S07	CONNECTOR		
	CN815	VMC0229-S06	CONNECTOR		
	CN819	VMC0229-S07	CONNECTOR		
	CN820	VMC0229-S07	CONNECTOR		
	CN821	VMC0229-S07	CONNECTOR		
	CN901	VMC0166-005Z	CONNECTOR		
	CP801	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CP802	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ101	GEN41EM-475	NP-E.CAPACITOR	4.7MF 20% 25V	
	CQ102	GEN41EM-475	NP-E.CAPACITOR	4.7MF 20% 25V	
	CQ201	GEN41EM-475	NP-E.CAPACITOR	4.7MF 20% 25V	
	CQ202	GEN41EM-475	NP-E.CAPACITOR	4.7MF 20% 25V	
	CQ801	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CQ802	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ803	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ804	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	JQ801	EMN00TV-402A	PIN JACK		
	LA101	VQP0001-5622S	INDUCTOR		
	LA201	VQP0001-5622S	INDUCTOR		
	LB101	VQP0001-183	INDUCTOR		
	LB151	VQP0001-183	INDUCTOR		
	LB201	VQP0001-183	INDUCTOR		
	LB251	VQP0001-183	INDUCTOR		
	LE801	VQH1008-058	OSC COIL(BIAS)		
	LE851	VQH1008-058	OSC COIL(BIAS)		
	LG101	VQH7001-021	OSC COIL(BIAS)		
	LG151	VQH7001-021	OSC COIL(BIAS)		
	LG201	VQH7001-021	OSC COIL(BIAS)		
	LG251	VQH7001-021	OSC COIL(BIAS)		
	Q 701	25C945	TRANSISTOR		
	Q 702	25C945	TRANSISTOR		
	Q 703	AN1F4M	TRANSISTOR		
	Q 705	UN4212	TRANSISTOR		
	Q 706	25C945	TRANSISTOR		
	Q 707	25C945	TRANSISTOR		
	Q 708	25C945	TRANSISTOR		
	Q 709	UN4212	TRANSISTOR		
	Q 710	UN4212	TRANSISTOR		
	Q 711	UN4212	TRANSISTOR		
	Q 712	UN4212	TRANSISTOR		
	Q 713	UN4212	TRANSISTOR		
	Q 714	UN4212	TRANSISTOR		
	Q 715	25C945	TRANSISTOR		
	Q 716	25C945	TRANSISTOR		
	Q 717	25C945	TRANSISTOR		
	Q 718	25C945	TRANSISTOR		
	Q 719	25C945	TRANSISTOR		
	Q 720	25C945	TRANSISTOR		
	Q 721	25C945	TRANSISTOR		
	Q 722	25C945	TRANSISTOR		
	Q 723	25C945	TRANSISTOR		
	Q 724	AN1F4M	TRANSISTOR		
	Q 725	AN1F4M	TRANSISTOR		
	Q 726	UN4212	TRANSISTOR		
	Q 727	UN4212	TRANSISTOR		
	Q 728	25A733A(P,K)	TRANSISTOR		
	Q 729	25A733A(P,K)	TRANSISTOR		
	Q 730	25A733A(P,K)	TRANSISTOR		
	Q 731	25A733A(P,K)	TRANSISTOR		
	Q 732	25A733A(P,K)	TRANSISTOR		
	Q 901	25D882(P,Q)	TRANSISTOR		
A	Q 903	25B772(Q,P)	TRANSISTOR		
A	Q 905	25B647(CD)	TR I/M		
A	Q 907	25D2144S(VW)	TR I/M		
A	Q 908	25D2144S(VW)	TR I/M		
A	Q 909	25B772(Q,P)	TRANSISTOR		
A	Q 910	25C945	TRANSISTOR		
A	Q 912	25D468(B,C)	TRANSISTOR		
A	Q 913	25A733A(P,K)	TRANSISTOR		
A	Q 915	25D468(B,C)	TRANSISTOR		
A	8A101	UN4212	TRANSISTOR		

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 910	1SR35-100A	SI DIODE		
	D 913	M7Z24JD	Z-DIODE I M		
	D 917	1S5133	DIODE		
	D 918	M7Z6.2JC	Z-DIODE I M		
	D 921	1S5133	DIODE		
	D 922	M7Z6.2JC	Z-DIODE I M		
	D 923	1S5133	DIODE		
	D 924	1S5133	DIODE		
	D 925	1S5133	DIODE		
	D 926	1S5133	DIODE		
	DA801	1S5133	DIODE		
	DA802	1S5133	DIODE		
	DA851	1S5133	DIODE		
	DA802	1S5133	DIODE		
	DA852	1S5133	DIODE		
	DE801	1S5133	DIODE		
	DE801	1S5133	DIODE		
	DE802	1S5133	DIODE		
	DL101	1S5133	DIODE		
	DL201	1S5133	DIODE		
	DR801	1S5133	DIODE		
	DR802	1S5133	DIODE		
	DR803	1S5133	DIODE		
	DR801	1S5133	DIODE		
	DR802	1S5133	DIODE		
	F CLP	VMZ0087-001Z	FUSE HOLDER		
	F CLP	VMZ0087-001Z	FUSE HOLDER		
	IC881	AN6557F	IC		A,B,E,EN
	IC882	UPC1330HA	IC		G,U,UT
	IC883	UPD40668C	IC		
	IC885	AN6557F	IC		
	IC886	UPC1330HA	IC		
	IC881	UPC1297CA	I.C		
	IC885	UPC1297CA	I.C		
	ICJ81	LA2000S	IC		
	ICL81	BA15218N	IC		
	ICP81	BA15218N	IC		
	ICQ81	BA15218N	IC		
	ICQ82	UPD40668C	IC		
	ICQ83	UPD40668C	IC		
	ICQ84	BA15218N	IC		
	ICR81	UPD40528C	I.C		
	ICT81	BA15218N	IC		
	IC701	MB88625B-142	IC		
	IC702	M50253P	IC	CONTROL MICOM PORT EXPANDER	
	IC703	BA6218	IC	A CAM M.DRIVE	
	IC704	BA6218	IC	B CAM M.DRIVE	
	IC705	TAB409S	IC	A REEL M.DRIVE	
	IC706	TAB409S	IC	B REEL M.DRIVE	
	IC901	BA15218N	IC		
A	J 701	QMS3533-001	JACK	COMPU LINK JACK	

J - W708BK A/B/E/EN/G/U/UT  
D - W709TN C/J

BLOCK NO. 0111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 715	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 716	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 717	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 718	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 719	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 720	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 721	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 722	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 723	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 724	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 725	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 726	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 727	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 728	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 729	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 730	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 731	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 732	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 733	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 734	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 735	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 736	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 737	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 739	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 740	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 741	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 742	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 743	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 744	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 745	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 746	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 747	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 748	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 749	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 750	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 751	QRD161J-203	CARBON RESISTOR	20K 5% 1/6W	
R 752	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 753	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 754	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
R 755	QRH144J-4R7	FUSI. RESISTOR	4.7 5% 1/4W	A,B,E,EN
R 755	QRH144J-4R7	FUSI. RESISTOR	4.7 5% 1/4W	G,U,UT
R 755	QRD14CJ-4R7SX	CARBON RESISTOR	4.7 5% 1/4W	C,J
R 756	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 757	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 758	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 759	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 760	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
R 761	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 762	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R 763	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 764	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 765	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 766	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 767	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 768	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	

BLOCK NO. 0111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
QA105	2SC945	TRANSISTOR		
QA154	2SK105(HJ)	FET TRANSISTOR		
QA155	2SC945	TRANSISTOR		
QA201	UN4212	TRANSISTOR		
QA205	2SC945	TRANSISTOR		
QA254	2SK105(HJ)	FET TRANSISTOR		
QA255	2SC945	TRANSISTOR		
QA803	UN4212	TRANSISTOR		
QA804	AN1F4M	TRANSISTOR		
QA853	UN4212	TRANSISTOR		
QA854	AN1F4M	TRANSISTOR		
QB801	AN1F4M	TRANSISTOR		
QB851	AN1F4M	TRANSISTOR		
QB852	UN4212	TRANSISTOR		
QB801	2SC2001(L,K)	TRANSISTOR		
QB802	2SC2001(L,K)	TRANSISTOR		
QB803	2SK105(HJ)	FET TRANSISTOR		
QB804	2SK105(HJ)	FET TRANSISTOR		
QB805	AN1F4M	TRANSISTOR		
QB851	2SC2001(L,K)	TRANSISTOR		
QB852	2SC2001(L,K)	TRANSISTOR		
QB801	2SC2001(L,K)	TRANSISTOR		
QB802	2SA733A(P,K)	TRANSISTOR		
QB851	2SC2001(L,K)	TRANSISTOR		
QB852	2SA733A(P,K)	TRANSISTOR		
QB801	2SC945	TRANSISTOR		
QB851	2SC945	TRANSISTOR		
QB801	2SC945	TRANSISTOR		
QB802	2SC945	TRANSISTOR		
QB0101	2SC2001(L,K)	TRANSISTOR		
QB0102	UN4212	TRANSISTOR		
QB201	2SC2001(L,K)	TRANSISTOR		
QB202	UN4212	TRANSISTOR		
QB801	2SA733A(P,K)	TRANSISTOR		
QB802	UN4212	TRANSISTOR		
QB803	AN1F4M	TRANSISTOR		
QB804	UN4212	TRANSISTOR		
QB801	2SC945	TRANSISTOR		
QB802	UN4212	TRANSISTOR		
QB803	UN4212	TRANSISTOR		
QB804	UN4212	TRANSISTOR		
QB805	UN4212	TRANSISTOR		
QB806	UN4212	TRANSISTOR		
R 702	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R 703	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 704	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 705	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 706	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 707	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 708	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R 709	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 710	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
R 711	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 712	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 714	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	

△Parts are safety assurance parts.

When replacing these parts, make sure to use the specified one.

# ● Main Board Parts List

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C8802	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8803	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8804	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8851	QCF11HP-103	C CAPACITOR	0.010MF +100%-0%	
	C8853	QCF11HP-103	C CAPACITOR	0.010MF +100%-0%	
	C8156	QCS32HJ-151ZV	C CAPACITOR	150PF 5% 500V	
	C8256	QCS32HJ-151ZV	C CAPACITOR	150PF 5% 500V	
	C8801	QFP32AJ-153ZM	PP CAPACITOR	0.015MF 5% 100V	
	C8802	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
	C8804	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
	C8805	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
	C8806	QFLC1HJ-822ZM	M CAPACITOR	8200PF 5% 50V	
	C8807	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
	C8808	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
	C8809	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	C8851	QFP32AJ-153ZM	PP CAPACITOR	0.015MF 5% 100V	
	C8852	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
	C8856	QFLC1HJ-822ZM	M CAPACITOR	8200PF 5% 50V	
	C8857	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
	C8858	QFLC1HJ-332ZM	M CAPACITOR	3300PF 5% 50V	
	C8701	EFO-6C800474	CERAMIC RESONATOR (F=8MHz)		
	C8101	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
	C8102	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C8103	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
	C8104	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	C8105	QFLC1HJ-223ZM	M CAPACITOR	0.022MF 5% 50V	
	C8106	QFLC1HJ-393ZM	M CAPACITOR	0.039MF 5% 50V	
	C8107	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8151	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
	C8152	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C8153	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
	C8154	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	C8155	QFLC1HJ-223ZM	M CAPACITOR	0.022MF 5% 50V	
	C8156	QFLC1HJ-393ZM	M CAPACITOR	0.039MF 5% 50V	
	C8157	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8201	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
	C8202	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C8203	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
	C8204	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	C8205	QFLC1HJ-223ZM	M CAPACITOR	0.022MF 5% 50V	
	C8206	QFLC1HJ-393ZM	M CAPACITOR	0.039MF 5% 50V	
	C8207	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8251	QFP32AJ-561ZM	PP CAPACITOR	560PF 5% 100V	
	C8252	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C8253	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
	C8254	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	C8255	QFLC1HJ-223ZM	M CAPACITOR	0.022MF 5% 50V	
	C8256	QFLC1HJ-393ZM	M CAPACITOR	0.039MF 5% 50V	
	C8257	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8801	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8802	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C8803	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	C8804	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C8851	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C8852	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 701	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 702	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	C 703	QCF11HP-103	C CAPACITOR	0.010MF +100%-0%	
	C 704	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C 705	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C 706	QETC1HM-224ZN	E CAPACITOR	22MF 20% 50V	
	C 901	QCF11HP-103	C CAPACITOR	0.010MF +100%-0%	
	C 902	QCF11HP-103	C CAPACITOR	0.010MF +100%-0%	
	C 903	QETB1EM-338N	E CAPACITOR	3300MF 20% 25V	
	C 904	QETB1EM-338N	E CAPACITOR	3300MF 20% 25V	
	C 906	QCF11HP-103	C CAPACITOR	0.010MF +100%-0%	
	C 907	QETC1EM-107ZN	E CAPACITOR	100MF 20% 25V	
	C 908	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
	C 909	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	C 910	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
	C 911	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
	C 914	QETC1EM-337ZN	E CAPACITOR	330MF 20% 25V	
	C 915	QETC1HM-227ZN	E CAPACITOR	220MF 20% 50V	
	C 917	QETC1EM-107ZN	E CAPACITOR	100MF 20% 25V	
	C 918	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C 920	QETC1CM-107ZN	E CAPACITOR	100MF 20% 16V	
	C 921	QETC1CM-477ZN	E CAPACITOR	470MF 20% 16V	
	C 923	QETC1CM-337ZN	E CAPACITOR	330MF 20% 16V	
	C 924	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 928	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
	C 931	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CA101	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CA102	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CA103	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CA104	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	CA105	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
	CA106	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CA107	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
	CA109	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CA151	QFLC1HJ-102ZM	M CAPACITOR	1000PF 5% 50V	
	CA153	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CA154	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	CA155	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
	CA156	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CA157	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
	CA201	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CA202	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CA203	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CA204	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	CA205	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
	CA206	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CA207	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
	CA209	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CA251	QFLC1HJ-102ZM	M CAPACITOR	1000PF 5% 50V	
	CA253	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CA254	QFLC1HJ-103ZM	M CAPACITOR	0.010MF 5% 50V	
	CA255	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
	CA256	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CA257	QFLC1HJ-152ZM	M CAPACITOR	1500PF 5% 50V	
	CA801	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	

D - W708BK A/B/E/EN/G/U/UT  
D - W709TN C/J

BLOCK NO. 04111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CQ805	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CQ806	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ807	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ810	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	CT801	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CT802	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CT803	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CT804	QCB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	CT805	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CT806	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CT807	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	CT808	QF1C1HJ-222ZM	M CAPACITOR	2200PF 5% 50V	
	CT810	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	D 701	1SS133	DIODE		
	D 702	1SS133	DIODE		
	D 703	1SS133	DIODE		
	D 704	1SS133	DIODE		
	D 705	1SS133	DIODE		
	D 706	1SS133	DIODE		
	D 707	1SS133	DIODE		
	D 708	1SS133	DIODE		
	D 709	1SS133	DIODE		
	D 710	1SS133	DIODE		
	D 711	1SS133	DIODE		
	D 712	1SS133	DIODE		
	D 713	1SS133	DIODE		
	D 714	1SS133	DIODE		
	D 715	1SS133	DIODE		
	D 716	1SS133	DIODE		
	D 717	1SS133	DIODE		
	D 718	1SS133	DIODE		
	D 719	1SS133	DIODE		
	D 720	1SS133	DIODE		
	D 725	1SS133	DIODE		
	D 726	1SS133	DIODE		
	D 730	1SS133	DIODE		
	D 731	1SS133	DIODE		
	D 732	1SS133	DIODE		
	D 733	1SS133	DIODE		
	D 734	1SS133	DIODE		
	D 735	1SS133	DIODE		
	D 736	1SS133	DIODE		
	D 737	1SS133	DIODE		
	D 738	1SS133	DIODE		
	D 739	1SS133	DIODE		
	D 740	1SS133	DIODE		
	D 901	1SR35-100A	SI DIODE		
	D 902	1SR35-100A	SI DIODE		
	D 903	1SR35-100A	SI DIODE		
	D 904	1SR35-100A	SI DIODE		
	D 905	1SS133	DIODE		
	D 906	1SS133	DIODE		
	D 907	MT73-61A	Z-DIODE		
	D 908	1SS133	DIODE		
	D 909	1SR35-100A	SI DIODE		

BLOCK NO. 04111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C6853	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	C6854	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C6855	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CH801	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CH802	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CH803	QETC1CM-337ZN	E CAPACITOR	330MF 20% 16V	
	CH851	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CH852	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CJ801	QF1C1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
	CJ802	QCS11HJ-481	C CAPACITOR	680PF 5% 50V	
	CJ803	QF1C1HJ-102ZM	M CAPACITOR	1000PF 5% 50V	
	CJ804	QFV71HJ-394ZM	FILM CAPACITOR	.39MF 5% 50V	
	CJ805	QETC1HM-104ZN	E CAPACITOR	.10MF 20% 50V	
	CJ806	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CL101	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CL201	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	CL801	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CL802	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CNA81	TTL25V-007	CONNECTOR		
	CNA85	TTL25V-007	CONNECTOR		
	CH681	VMC0238-005Z	CONNECTOR		
	CH685	VMC0238-005Z	CONNECTOR		
	CH701	VMC0166-004Z	CONNECTOR		
	CH702	VMC0166-003Z	CONNECTOR		
	CH703	VMC0166-004Z	CONNECTOR		
	CH704	VMC0166-003Z	CONNECTOR		
	CH705	VMC0163-013	CONNECTOR		
	CH706	VMC0163-013	CONNECTOR		
	CH709	VMC0166-004Z	CONNECTOR		
	CH710	VMC0166-003Z	CONNECTOR		
	CH711	VMC0166-004Z	CONNECTOR		
	CH716	VMC0163-008	CONNECTOR		
	CH717	VMC0163-008	CONNECTOR		
	CH804	VMC0163-007	CONNECTOR		
	CH806	VMC0166-003Z	CONNECTOR		
	CH807	VMC0166-003Z	CONNECTOR		
	CH808	VMC0166-003Z	CONNECTOR		
	CH809	VMC0166-005Z	CONNECTOR		
	CH813	VMC0229-S09	CONNECTOR		
	CH814	VMC0229-S07	CONNECTOR		
	CH815	VMC0229-S06	CONNECTOR		
	CH819	VMC0229-S07	CONNECTOR		
	CH820	VMC0229-S07	CONNECTOR		
	CH821	VMC0229-S07	CONNECTOR		
	CH901	VMC0166-005Z	CONNECTOR		
	CP801	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CP802	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ101	QEN41EM-475	NP-E-CAPACITOR	4.7MF 20% 25V	
	CQ102	QEN41EM-475	NP-E-CAPACITOR	4.7MF 20% 25V	
	CQ201	QEN41EM-475	NP-E-CAPACITOR	4.7MF 20% 25V	
	CQ202	QEN41EM-475	NP-E-CAPACITOR	4.7MF 20% 25V	
	CQ801	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	CQ802	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ803	QCF11HP-103	C CAPACITOR	.010MF +100:-0%	
	CQ804	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	



BLOCK NO. 09111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RA109	QRD161J-180	CARBON RESISTOR	18 5% 1/6W	
	RA111	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA112	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA113	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA114	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA151	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RA154	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	RA155	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RA158	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
	RA159	QRD161J-180	CARBON RESISTOR	18 5% 1/6W	
	RA161	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA162	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA163	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA164	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA165	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RA201	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RA202	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RA204	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	RA205	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA206	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	RA207	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RA208	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA209	QRD161J-180	CARBON RESISTOR	18 5% 1/6W	
	RA211	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA212	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA213	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA214	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA251	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RA254	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	RA255	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RA258	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
	RA259	QRD161J-180	CARBON RESISTOR	18 5% 1/6W	
	RA261	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA262	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA263	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA264	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA265	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RA801	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA806	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA807	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA808	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA809	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA810	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA851	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA856	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA857	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RD808	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RD809	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RD858	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RD859	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RE801	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RE802	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RE803	QRD14CJ-2R2SX	CARBON RESISTOR	2.2 5% 1/4W	
	RE804	QRD14CJ-2R2SX	CARBON RESISTOR	2.2 5% 1/4W	
	RE805	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	

BLOCK NO. 09111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 769	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 788	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R 789	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R 790	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 791	QRD161J-622	CARBON RESISTOR	6.2K 5% 1/6W	
	R 792	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 793	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 794	QRD161J-622	CARBON RESISTOR	6.2K 5% 1/6W	
	R 795	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 796	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 901	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	A-B,E,EN
	R 901	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	G,U,UT
	R 901	QRD14CJ-2R2SX	CARBON RESISTOR	2.2 5% 1/4W	C,J
	R 902	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	A-B,E,EN
	R 902	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	G,U,UT
	R 902	QRD14CJ-2R2SX	CARBON RESISTOR	2.2 5% 1/4W	C,J
	R 908	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 910	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 912	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 913	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 914	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 915	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 917	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 918	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 919	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 920	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 921	QRZ0077-100X	FUSI. RESISTOR	10 5% 1/4W	A-B,E,EN
	R 921	QRZ0077-100X	FUSI. RESISTOR	10 5% 1/4W	G,U,UT
	R 921	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	C,J
	R 923	QRD14CJ-821SX	CARBON RESISTOR	82K 5% 1/4W	
	R 927	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 928	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 933	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 937	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	
	R 937	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	
	R 937	QRD14CJ-4R7SX	CARBON RESISTOR	4.7 5% 1/4W	
	R 938	QRD14CJ-331SX	CARBON RESISTOR	330 5% 1/4W	
	R 940	QRH144J-6R8	FUSI. RESISTOR	6.8 5% 1/4W	A-B,E,EN
	R 940	QRH144J-6R8	FUSI. RESISTOR	6.8 5% 1/4W	G,U,UT
	R 940	QRD14CJ-6R8SX	UNF.-C. RESISTOR	6.8 5% 1/4W	C,J
	R 941	QRD14CJ-331SX	CARBON RESISTOR	330 5% 1/4W	
	R 942	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
	R 943	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 944	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 945	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 931	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	G,U,UT
	R 951	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/4W	A-B,E,EN
	R 932	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/4W	A-B,E,EN
	RA101	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RA102	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	RA104	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	RA105	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RA106	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	RA107	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	RA108	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	

D - W708BK A/B/E/EN/G/U/UT  
FD - W709TN C/J

BLOCK NO. 01111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUPPLX
RJ803	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RJ804	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
RJ805	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RJ806	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
RJ807	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
RL101	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RL102	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
RL103	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
RL104	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
RL105	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
RL106	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RL201	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RL202	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
RL203	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
RL204	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
RL205	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
RL206	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RP101	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
RP102	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
RP103	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RP104	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
RP105	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RP201	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
RP202	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
RP203	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RP204	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
RP205	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RQ101	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
RQ102	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
RQ103	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ104	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RQ105	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
RQ106	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
RQ107	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
RQ108	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
RQ109	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RQ110	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
RQ112	QRD161J-753	C RESISTOR	75K 5% 1/6W	
RQ113	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ114	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
RQ115	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
RQ201	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
RQ202	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
RQ203	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ204	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RQ205	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
RQ206	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
RQ207	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
RQ208	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
RQ209	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RQ210	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
RQ212	QRD161J-753	C RESISTOR	75K 5% 1/6W	
RQ213	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ214	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
RQ215	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	

BLOCK NO. 01111111

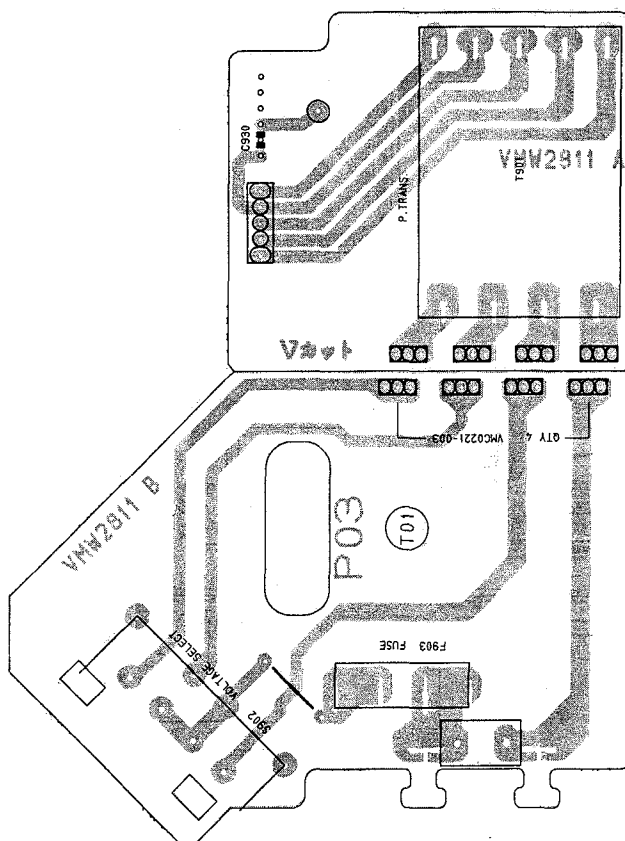
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUPPLX
RE806	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
RE807	QRD161J-105	CARBON RESISTOR	1.0K 5% 1/6W	
RE808	QRD161J-105	CARBON RESISTOR	1.0K 5% 1/6W	
RE809	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
RE810	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RE853	QRD14CJ-2R2SX	CARBON RESISTOR	2.2 5% 1/4W	
RE854	QRD14CJ-2R2SX	CARBON RESISTOR	2.2 5% 1/4W	
RE855	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
RE856	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
RG101	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
RG102	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
RG103	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
RG151	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
RG152	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
RG153	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
RG201	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
RG202	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
RG203	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
RG251	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
RG252	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
RG253	QRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
RG801	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RG802	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RG803	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
RG851	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RG852	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RG853	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
RH801	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RH802	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RH803	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
RH804	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RH805	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
RH806	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RH851	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
RH852	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RH853	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
RH854	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RH855	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
RH856	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
RI801	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RI802	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
RI803	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
RI804	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RI805	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
RI851	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RI852	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
RI853	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
RI854	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
RI855	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
RJ801	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
RJ802	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	

BLOCK NO. 00111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
RQ803	QRD1611J-223	CARBON RESISTOR	22K 5% 1/6W	
RQ804	QRD1611J-103	CARBON RESISTOR	10K 5% 1/6W	
RQ805	QRD1611J-101	CARBON RESISTOR	100 5% 1/6W	
RQ806	QRD1611J-103	CARBON RESISTOR	10K 5% 1/6W	
RQ807	QRD1611J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ808	QRD1611J-473	CARBON RESISTOR	47K 5% 1/6W	
RQ809	QRD1611J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ810	QRD1611J-473	CARBON RESISTOR	47K 5% 1/6W	
RQ811	QRD1611J-471	CARBON RESISTOR	470 5% 1/6W	
RQ812	QRD1611J-471	CARBON RESISTOR	470 5% 1/6W	
RQ813	QRD1611J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RQ814	QRD1611J-473	CARBON RESISTOR	47K 5% 1/6W	
RR101	QRD1611J-393	CARBON RESISTOR	39K 5% 1/6W	
RR102	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
RR103	QRD1611J-153	CARBON RESISTOR	15K 5% 1/6W	
RR201	QRD1611J-393	CARBON RESISTOR	39K 5% 1/6W	
RR202	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
RR203	QRD1611J-153	CARBON RESISTOR	15K 5% 1/6W	
RR801	QRD1611J-471	CARBON RESISTOR	470 5% 1/6W	
RR802	QRD1611J-473	CARBON RESISTOR	47K 5% 1/6W	
RR803	QRD1611J-103	CARBON RESISTOR	10K 5% 1/6W	
RR804	QRD1611J-472	CARBON RESISTOR	4.7K 5% 1/6W	
RR805	QRD1611J-473	CARBON RESISTOR	47K 5% 1/6W	
RR806	QRD1611J-472	CARBON RESISTOR	4.7K 5% 1/6W	
RR807	QRD1611J-223	CARBON RESISTOR	22K 5% 1/6W	
RR808	QRD1611J-223	CARBON RESISTOR	22K 5% 1/6W	
RR809	QRD1611J-223	CARBON RESISTOR	22K 5% 1/6W	
RT801	QRD1611J-101	CARBON RESISTOR	100 5% 1/6W	
RT802	QRD1611J-103	CARBON RESISTOR	10K 5% 1/6W	
RT803	QRD1611J-103	CARBON RESISTOR	10K 5% 1/6W	
RT804	QRD1611J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RT805	QRD1611J-183	CARBON RESISTOR	18K 5% 1/6W	
RT806	QRD1611J-101	CARBON RESISTOR	100 5% 1/6W	
RT807	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
RT808	QRD1611J-102	CARBON RESISTOR	1.0K 5% 1/6W	
RT809	QRD1611J-151	CARBON RESISTOR	150 5% 1/6W	
RT810	QRD1611J-151	CARBON RESISTOR	150 5% 1/6W	
RT811	QRD1611J-103	CARBON RESISTOR	10K 5% 1/6W	
R952	QRZ0077-4R7X	CARBON RESISTOR	4.7 5% 1/4W	
TAB	VMZ0034-002	TAB	AC TERMINAL	G.U./UT
VR111	QVZ3523-101	V RESISTOR	A PB LEVEL ADJ	
VR112	QVZ3523-203AZ	V RESISTOR	A PB EQ ADJ	
VR115	QVZ3523-101	V RESISTOR	B PB LEVEL ADJ	
VR116	QVZ3523-203AZ	V RESISTOR	B PB EQ ADJ	
VR121	QVZ3523-101	V RESISTOR	A PB LEVEL ADJ	
VR122	QVZ3523-203AZ	V RESISTOR	A PB EQ ADJ	
VR125	QVZ3523-101	V RESISTOR	B PB LEVEL ADJ	
VR126	QVZ3523-203AZ	V RESISTOR	B PB EQ ADJ	
VR611	QVZ3523-203AZ	V RESISTOR	A BIAS ADJ	
VR615	QVZ3523-203AZ	V RESISTOR	B BIAS ADJ	
VR621	QVZ3523-203AZ	V RESISTOR	A BIAS ADJ	
VR625	QVZ3523-203AZ	V RESISTOR	B BIAS ADJ	
VR701	QVPE612-1032M	V RESISTOR	A N.SPEED ADJ	
VR702	QVPE612-2037M	V RESISTOR	A H.SPEED ADJ	
VR703	QVPE617-1037M	V RESISTOR	R N.SPEED ADJ	

BLOCK NO. 011111				
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
VR704	QVPE612-2037M	V RESISTOR	B H.SPEED ADJ	

## Power Supply Board (U/UT Version)



**⚠ Parts are safety assurance parts.**

When replacing these parts, make sure to use the specified one.

● Power Supply Board PartsList (U/UT)

REF.	PARTS NO.	PARTS NAME	REMARKS	SUPPLIX
C 930	QC11HP-103	C CAPACITOR	.010MF +100I-0Z	U,UT
Δ CN905	VMC0221-003	CONNECTOR		U,UT
Δ CN906	VMC0221-003	CONNECTOR		U,UT
Δ CN907	VMC0221-003	CONNECTOR		U,UT
Δ CN908	VMC0221-003	CONNECTOR		U,UT
F C1P	VM700087-001Z	FUSE HOLDER	F903	U,UT
Δ S 902	QS52335-112	SLIDE SWITCH		U,UT
TAB	VM20034-002	TAB	AC TERMINAL	

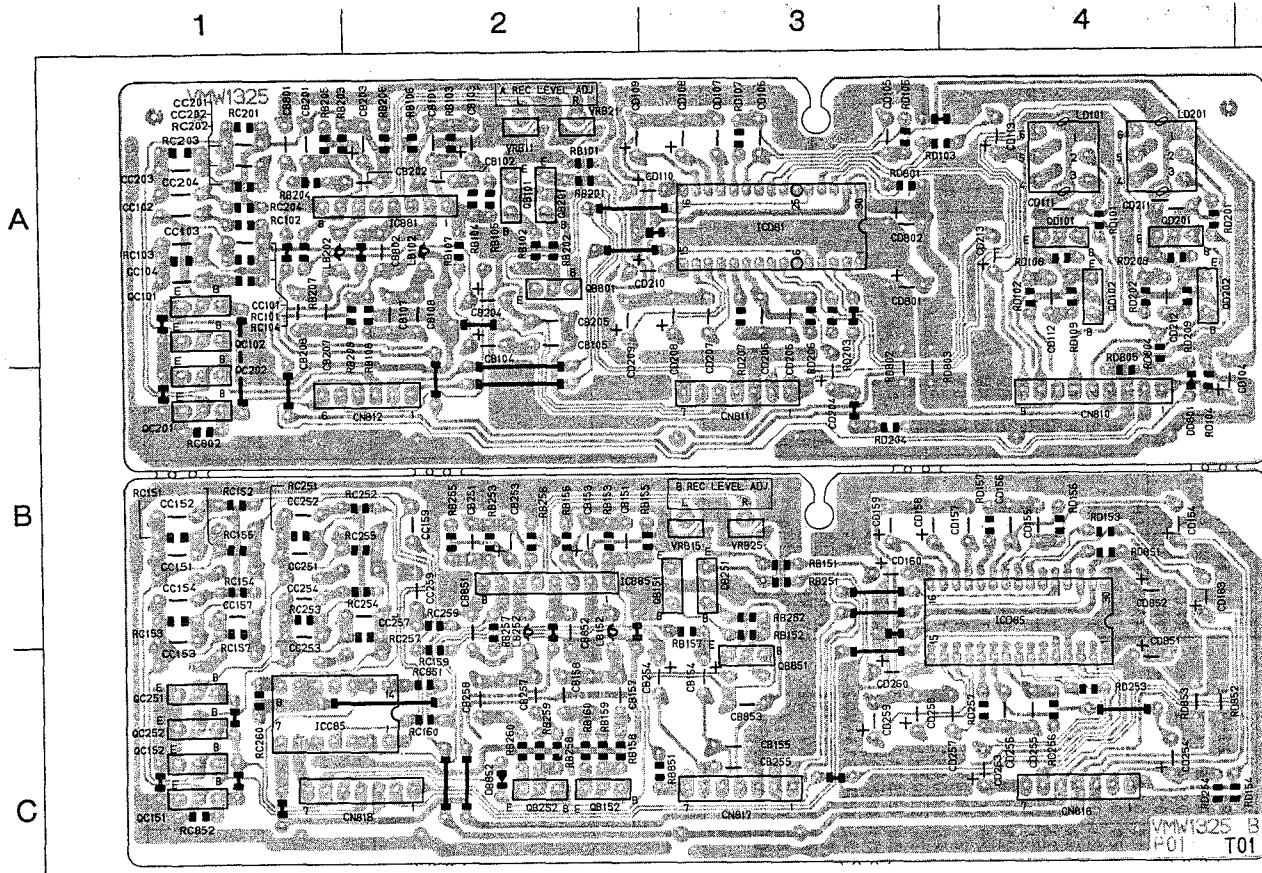


● Sub Board Parts List (FL/Switch Board)

BLOCK NO. 02					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
C 930	QC84H11-103Y	C CAPACITOR	.010MF 20% 16V		
CN707	VMC0163-013	CONNECTOR			
CN708	VMC0163-013	CONNECTOR			
CN712	VMC0280-004	CONNECTOR			
CN713	VMC0280-005	CONNECTOR			
CN714	VMC0281-004	CONNECTOR			
CN715	VMC0281-005	CONNECTOR			
CN805	VMC0163-007	CONNECTOR	INPUT&KEY		
CP101	QCF11HP-223	C CAPACITOR	.022MF +100%-0%		
CP201	QCF11HP-223	C CAPACITOR	.022MF +100%-0%		
D 721	1SS133	DIODE			
D 722	1SS133	DIODE			
D 723	1SS133	DIODE			
D 727	1SS133	DIODE			
D 728	1SS133	DIODE			
D 729	1SS133	DIODE			
D 741	SLR-55VCF08	LED			
FL701	BJ150GK	FL TUBE			
JP801	QMS6032-V01	JACK	H.P JACK		
JT801	QMS6035-V01	JACK	MIC JACK		
R 770	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 771	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W		
R 772	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
R 773	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
R 774	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 775	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W		
R 776	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
R 777	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 778	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
R 779	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
R 780	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 781	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W		
R 782	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
R 783	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
R 784	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 785	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
R 786	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
R 787	QRD161J-151	CARBON RESISTOR	150 5% 1/6W		
R0856	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R0857	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
RN701	QRB125J-473	R NETWORK	47K 5% 1/2W		
RN702	QRB115J-473	NET RESISTOR	47K 5% 1/1W		
S 701	VSH1140-005	LEAF SWITCH			
S 702	VSH1140-005	LEAF SWITCH			
S 703	VSH1140-005	LEAF SWITCH			
S 704	VSH1140-005	LEAF SWITCH			
S 705	VSH1140-005	LEAF SWITCH			
S 706	VSH1140-005	LEAF SWITCH			
S 707	VSH1140-005	LEAF SWITCH			
S 708	VSH1140-005	LEAF SWITCH			
S 709	VSH1140-005	LEAF SWITCH			
S 710	VSH1140-005	LEAF SWITCH			
S 711	QSQ4H11-V01	TACT SWITCH	KEY SW		
S 712	QSQ4H11-V01	TACT SWITCH	KEY SW		
S 713	QSQ4H11-V01	TACT SWITCH	KEY SW		

1 - W708BK A/B/E/EN/G/U/UT  
2 - W709TN C/J

# ■ DOLBY NR / REC. Board



△ Parts are safety assurance parts.  
When replacing these parts, make sure to use the specified one.

## ● DOLBY NR / REC. Board Parts List

BLOCK NO. 04				SUFFIX
A	REF.	PARTS NO.	PARTS NAME	REMARKS
	CB101	QCS11HJ-330	C CAPACITOR	33PF 5% 50V
	CB102	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CB103	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V
	CB104	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V
	CB105	QCS11HJ-471	C CAPACITOR	470PF 5% 50V
	CB106	QCS32HJ-151ZV	C CAPACITOR	150PF 5% 500V
	CB107	QFLC1HJ-1037M	M CAPACITOR	.010MF 5% 50V
	CB108	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CB109	QCS11HJ-330	C CAPACITOR	33PF 5% 50V
	CB113	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V
	CB114	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V
	CB115	QCS11HJ-471	C CAPACITOR	470PF 5% 50V
	CB117	QFLC1HJ-123ZM	M CAPACITOR	.012MF 5% 50V
	CB158	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CB201	QCS11HJ-330	C CAPACITOR	33PF 5% 50V
	CB202	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CB203	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V
	CB204	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V
	CB205	QCS11HJ-471	C CAPACITOR	470PF 5% 50V
	CB206	QCS32HJ-151ZV	C CAPACITOR	150PF 5% 500V
	CB207	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V
	CB208	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CB251	QCS11HJ-330	C CAPACITOR	33PF 5% 50V
	CB253	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V
	CB254	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V
	CB255	QCS11HJ-471	C CAPACITOR	470PF 5% 50V
	CB257	QFLC1HJ-123ZM	M CAPACITOR	.012MF 5% 50V
	CB258	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CB801	QCF11HP-103	C CAPACITOR	.010MF +100% -0%
	CB802	QCF11HP-103	C CAPACITOR	.010MF +100% -0%
	CB851	QCF11HP-103	C CAPACITOR	.010MF +100% -0%
	CB852	QCF11HP-103	C CAPACITOR	.010MF +100% -0%
	CB853	QCY44HK-102	C CAPACITOR	1000PF 10% 50V
	CC101	QCC31EM-273ZV	C CAPACITOR	.027MF 20% 25V
	CC102	QCC31EM-563ZV	C CAPACITOR	.056MF 20% 25V
	CC103	QCC31EM-153ZV	C CAPACITOR	.015MF 20% 25V
	CC104	QCC11EM-483V	C CAPACITOR	.068MF 20% 25V
	CC151	QCC31EM-273ZV	C CAPACITOR	.027MF 20% 25V
	CC152	QCC31EM-563ZV	C CAPACITOR	.056MF 20% 25V
	CC153	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V
	CC154	QCC31EM-823ZV	C CAPACITOR	.082MF 20% 25V
	CC157	QCC11EM-123V	C CAPACITOR	.012MF 20% 25V
	CC159	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CC201	QCC31EM-273ZV	C CAPACITOR	.027MF 20% 25V
	CC202	QCC31EM-563ZV	C CAPACITOR	.056MF 20% 25V
	CC203	QCC31EM-153ZV	C CAPACITOR	.015MF 20% 25V
	CC204	QCC11EM-483V	C CAPACITOR	.068MF 20% 25V
	CC251	QCC31EM-273ZV	C CAPACITOR	.027MF 20% 25V
	CC252	QCC31EM-563ZV	C CAPACITOR	.056MF 20% 25V
	CC253	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V
	CC254	QCC31EM-823ZV	C CAPACITOR	.082MF 20% 25V
	CC257	QCC11EM-123V	C CAPACITOR	.012MF 20% 25V
	CC259	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V
	CD104	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V
	CD105	QFLC1HJ-222ZM	M CAPACITOR	2200PF 5% 50V



BLOCK NO. 04

BLOCK NO. 04

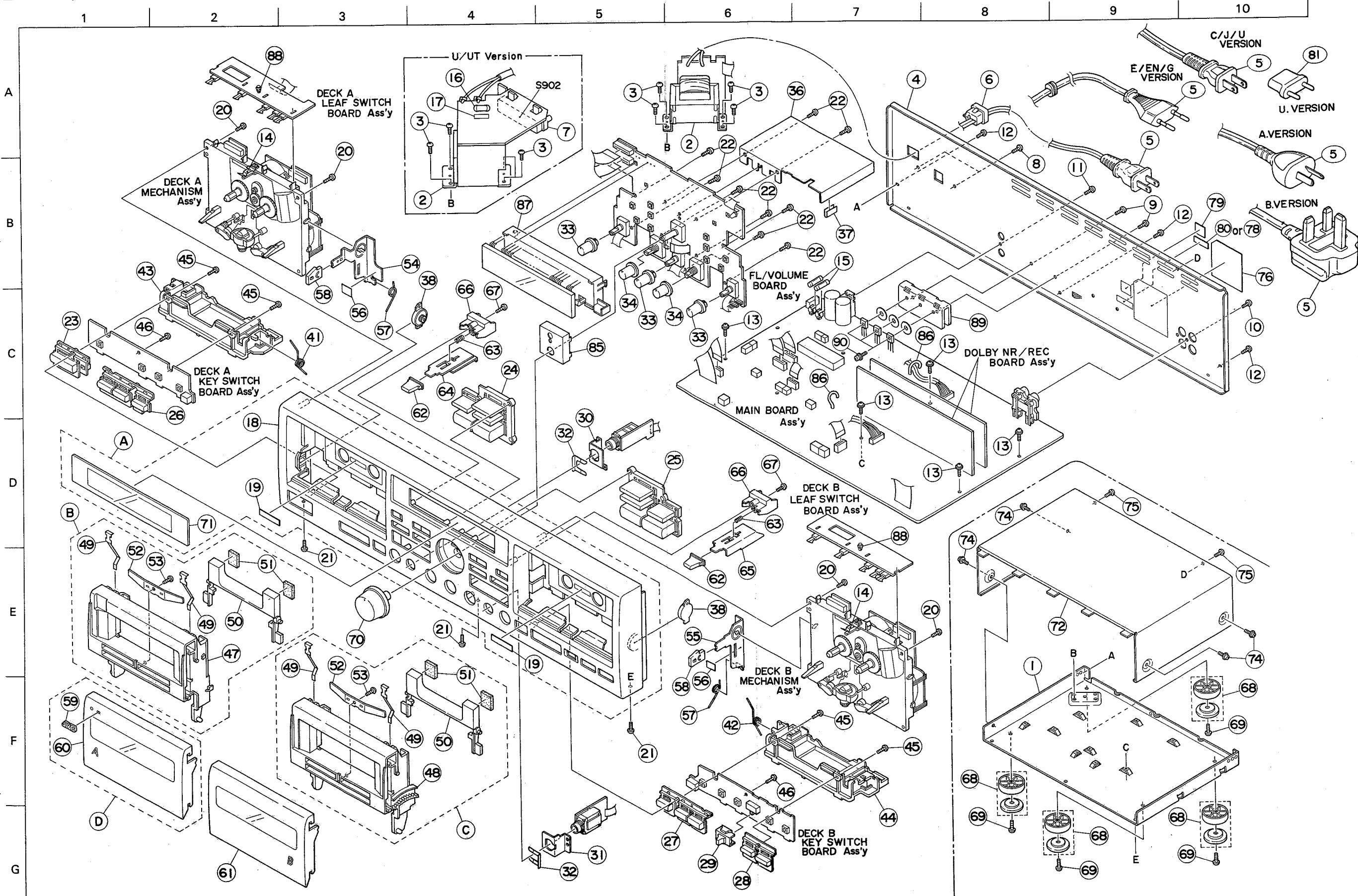
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TD - W708BK A/B/E/EN/G/U/UT  
TD - W708TN C/J

TD - W708BK A/B/E/EN/G/U/UT  
TD - W709TN C/J

## 8 Exploded View of Enclosure Component parts





# ● Enclosure Component Parts List

BLOCK NO. 1111

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	ZCTDW708K-FBK	FRONT PANEL		1		BK
	ZCTDW709J-FTN	FRONT PANEL		1		TN
B	ZCTDW709K-CH-A	CASSETTE HOLDER	DECK A	1		
C	ZCTDW709K-CH-B	CASSETTE HOLDER	DECK B	1		
D	ZCTDW708K-CL	CASSETTE LID	DECK A ONLY	1		BK
	ZCTDW709K-CL	CASSETTE LID	DECK A ONLY	1		TN
1	VKL1333-009	CHASSIS BASE		1		
2	VTP52Z5-021F	POWER TRANS		1	A,E,EN,G	
	VTP52Z5-021FBS	POWER TRANS		1	B	
	VTP52A5-021F	POWER TRANS		1	C,J	
	VTP52G5-021F	POWER TRANS		1	U,UT	
3	SBST3006Z	SCREW	FOR POWER TRANS	4		
4	VJC2410-038	REAR PANEL		1	A,B,E,EN,G	BK
	VJC2410-036	REAR PANEL		1	C,J	TN
	VJC2410-039	REAR PANEL		1	U,UT	BK
5	QMP2560-200	POWER CORD		1	A	
	QMP5530-0085BS	POWER CORD		1	B	
	QMP1480-200	POWER CORD		1	C,J	
	QMP3900-200	POWER CORD		1	E,EN,G	
	QMP7380-200	POWER CORD		1	U,UT	
6	QHS3771-108	CORD STOPPER		1	A,E,EN,G,U,J	
	QHS3771-108BS	CORD STOPPER		1	B	
	QHS4077-108	S R BUSHING		1	C,J	
7	VKS5011-001	VOLTAGE CONTACT		1	U,UT	
8	SBSF3008M	SCREW	FOR V.SELECTOR	2	U,UT	
9	SBSF3008M	SCREW	FOR HEAT SINK	2		
10	SBSF3008M	SCREW	FOR PIN JACK	1		
11	SBSF3008M	SCREW	FOR DCS JACK	1		
12	SBST3006M	SCREW	FOR REAR+CHASSI	3		
13	GBST3006Z	SCREW	FOR MAIN P.C.BO	5		
14	VKY4628-002	PACK SPRING		2		
15	QMF51A2-R80	FUSE	F901,F902	1	G,U,UT	
	QMF51A2-R80	FUSE	F901,F902	1	A,E,EN	
	QMF51E2-R80BS	FUSE	F901,F902	1	B	
16	QMF51A2-R315	FUSE	F903	1	U,UT	
17	VND4003-074	FUSE LABEL	FOR F903	1	U,UT	
18	VJG1205-003	FRONT PANEL		1	A,B,E,EN	BK
	VJG1205-003	FRONT PANEL		1	G,U,UT	BK
	VJG1205-002UL	FRONT PANEL		1	C,J	TN
19	VJD4024-001	REFLECTION PLAT		2		
20	SBSF3014Z	SCREW	FOR MECHANISM	4		
21	SBST3006M	SCREW	FOR FRONT PANEL	3		
22	SBSF2608Z	SCREW	FOR FL/VOLUME	9		
23	VXP5178-002	PUSH BUTTON	POWER	1		BK
	VXP5178-001	PUSH BUTTON	POWER	1		TN
24	VXP3559-004	MECHA BUTTON	A PLAY/STOP	1		BK
	VXP3559-003	MECHA BUTTON	A PLAY/STOP	1		TN
25	VXP3560-004	MECHA BUTTON	B PLAY/STOP	1		BK
	VXP3560-003	MECHA BUTTON	B PLAY/STOP	1		TN
26	VXP3561-002	MECHA BUTTON	A REC/PAUSE	1		BK
	VXP3561-001	MECHA BUTTON	A REC/PAUSE	1		TN
27	VXP3562-002	MECHA BUTTON	B REC/PAUSE	1		BK
	VXP3562-001	MECHA BUTTON	B REC/PAUSE	1		TN
28	VXP3563-002	MECHA BUTTON	DUBBING	1		BK
	VXP3563-001	MECHA BUTTON	DUBBING	1		TN

)- W708BK A/B/E/EN/G/U/UT  
)- W709TN C/J

BLOCK NO. 11111

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
29	VXS4394-002	SLIDE KNOB	REV.MODE	1		BK
	VXS4394-001	SLIDE KNOB	REV.MODE	1		TN
30	VKL7265-002	JACK BRACKET	FOR H.P.JACK	1		
31	VKL7264-003	MIC BRACKET	MIC JACK	1		
32	VKL6752-001	SNAP PLATE	JACK	2		
33	VXL4424-002	KNOB	BALANCE.H.PHONE	3		BK
	VXL4424-001	KOBE	BALANCE/H.PHONE	3		TN
34	VXL4425-002	KNOB	DOLBY NR	2		BK
	VXL4425-001	KNOBE	DOLBY NR	2		TN
36	VMA4602-001	SHIELD	FOR FL PWB	1		
37	VYSA1R6-021	SPACER		1		
38	VYH7779-00B	DUMPER ASS'Y		2		
41	VKW3006-228	TORSION SPRING	A-HOLDER	1		
42	VKW3006-229	TORSION SPRING	B-HOLDER	1		
43	VYH2275-001	MECHA HOLDER	FOR A MECHA.	1		
44	VYH2275-101	MECHA HOLDER	FOR B MECHA.	1		
45	SBSF2608Z	SCREW	FOR MECHANISM	4		
46	SBSF2608Z	SCREW	FOR A B PWB	2		
47	VJT2317-003	CASSETTE HOLDER	FOR A-MECHA	1		
48	VJT2317-004	CASSETTE HOLDER	FOR B-MECHA	1		
49	VKY4180-001	CASSETTE SPRING		4		
50	VJD3867-001	C.STABILIZER		2		
51	VYTS491-001	PAD		4		
52	VKY4635-002	SPRING PLATE		2		
53	SBSF2608Z	SCREW	FOR S.PLATE	2		
54	VKM3476-001	LOCK LEVER (R)	A-MECHA	1		
55	VKM3475-002	LOCK LEVER (L)	B-MECHA	1		
56	VYSS1R2-042	SPACER	L.LEVER	2		
57	VKW3006-217	TORSHION SPRING		2		
58	VYH7424-002	LOCK PLATE		2		
59	VJD5429-001	JVC MARK	FOR C.LID	1		
60	VJT2318-003	CASSETTE LID	FOR A MECHA	1		BK
	VJT2318-001	CASSETTE LID	FOR A MECHA	1		TN
61	VJT2318-010	CASSETTE LID	FOR B MECHA	1		BK
	VJT2318-009	CASSETTE LID	FOR B MECHA	1		TN
62	VXP5179-002	PUSH BUTTON	EJECT	2		BK
	VXP5179-001	PUSH BUTTON	EJECT	2		TN
63	VKW3001-077	C.SPRING		2		
64	VKL7262-002	REMOTE ARM	FOR A-MECHA	1		
65	VKL7263-002	REMOTE ARM	FOR B-MECHA	1		
66	VYH7773-001	BUTTON HOLDER		2		
67	SBSF2608Z	SCREW	FOR B.H.+F.P.	2		
68	VJF4039-00F	FOOT ASS'Y		4	A,U,UT	BK
	E406379-008SS	FOOT ASS'Y		4	B,E,EN,G	BK
	VJF4039-00E	FOOT ASS'Y		4	C,J	TN
69	SBST3008Z	SCREW	FOR FOOT	4		
70	VXL3023-002	KNOB	INPUT VOLUME	1		BK
	VXL3023-001	KNOB	INPUT VOLUME	1		TN
71	VJK3607-002	FINDER		1		BK
	VJK3607-001	FINDER		1		TN
72	VJC1964-002	TOP COVER		1		BK
	VJC1964-001	TOP COVER		1		TN
74	VKZ4614-001	SPECIAL SCREW		4		
75	SBST3006M	SCREW	FOR TOP COVER	2		

BLOCK NO. 

M	1	M	M			
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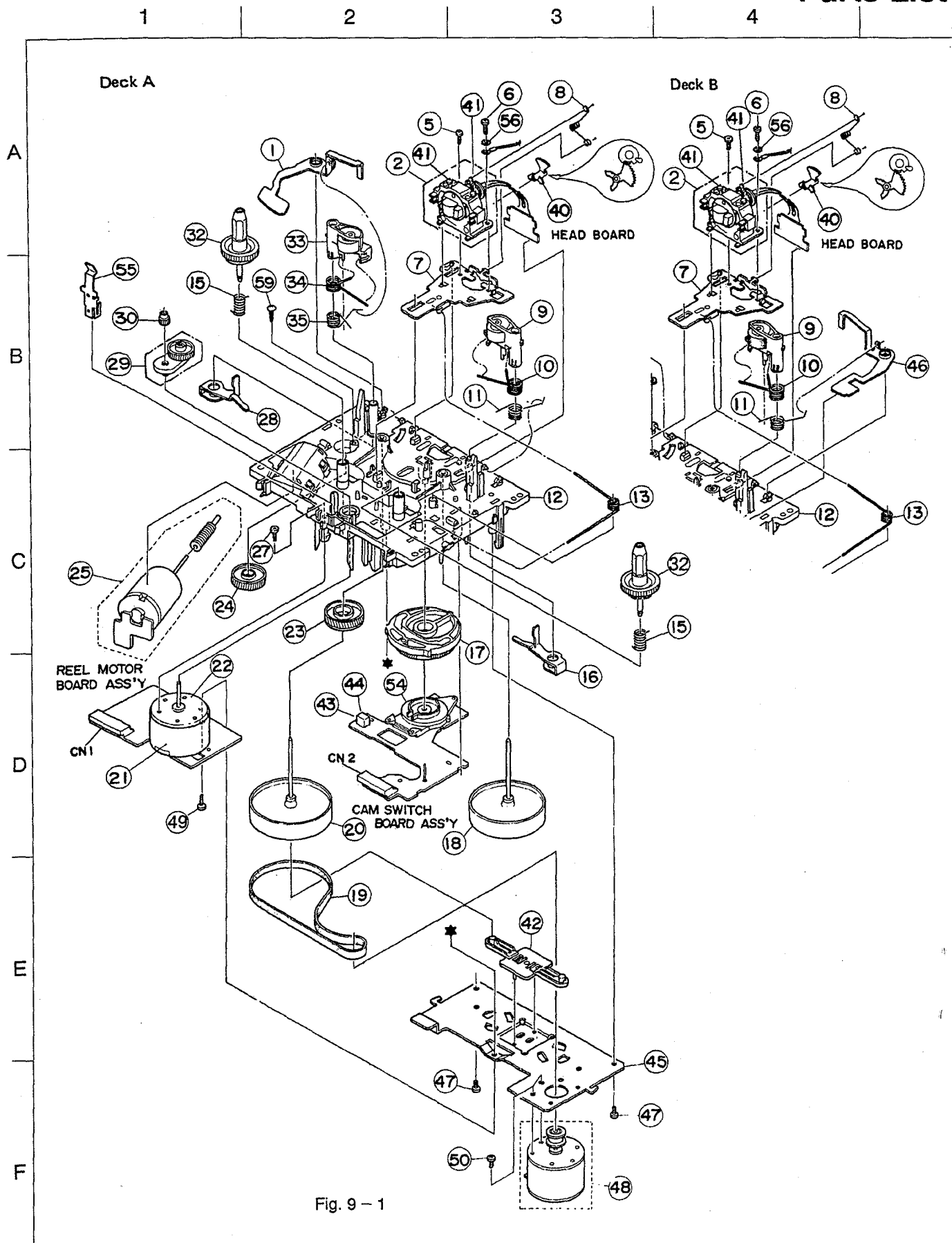
[illegible]

) - W708BK A/B/E/EN/G/U/UT  
 ) - W709TN C/J

9

Exploded View of Mechanism Component Parts and

Parts List

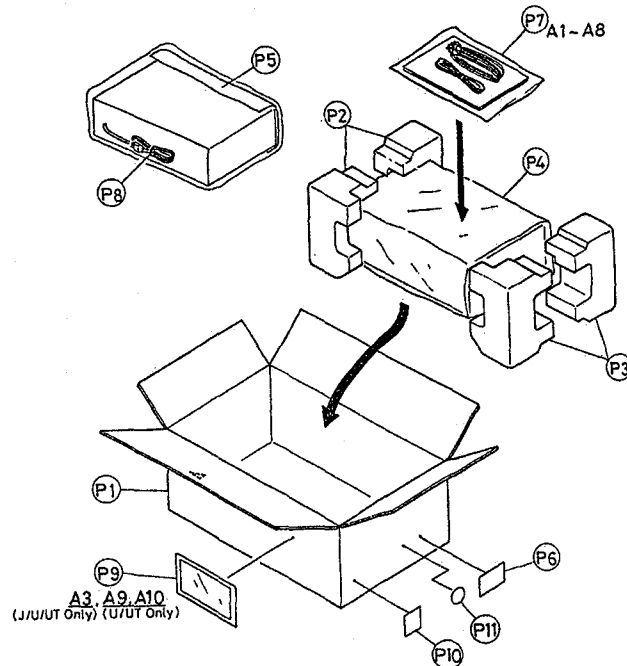


# ● Mechanism Component Parts List

BLOCK NO. M2MM111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VKL6954-007	EJECT SAFETY(R)	FOR DECK A	1		
	2	VKS3551-#0C	HEAD MOUNT ASY		1		
	5	SDST2004Z	SCREW	HEAD M.BASE	1		
	6	SDST2005Z	SCREW		1		
	7	VKL6942-00E	HEAD BASE ASSY		1		
	8	VKW4994-001	HEAD SPRING	FOR HEAD GIAR	1		
	9	VKP4221-00C	PINCH R.(L)ASSY		1		
	10	VKW4982-001	SPRING (L)	FOR PINCH ROLLE	1		
	11	VKW4933-005	TORSION SPRING	FOR RETURN (L)	1		
	13	VKW4930-002	RETURN SPRING	FOR HEAD BASE	1		
	15	VKW4928-003	B.T. SPRING		2		
	16	VKL6940-002	PINCH LEVER (L)		1		
	17	VKS2209-006	CONTROL CAM		1		
	18	VKF3186-00B	FLYWHEEL(L)ASSY		1		
	19	VKB3001-049	BELT	CAPSTAN	1		
	20	VKF3184-00B	FLYWHEEL(R)ASSY		1		
	21	FE-ZMS514	SHIELD CORE		1		
	22	MMN-6F4RA38	D.C.MOTOR	FOR REEL MOTOR	1		
	23	VKS5331-003	ACT GEAR(6)		1		
	24	VKS5330-004	ACT. GEAR (5)		1		
	25	MXN13FB12F-SA1	DC MOTOR ASS'Y	FOR ACTUATOR	1		
	27	SDSP2605Z	SCREW	FOR REEL MOTOR	1		
	28	VKL6939-002	PINCH LEVER (R)		1		
	29	VKS5325-00F	FR ARM ASS'Y		1		
	30	VKS5328-002	GEAR		1		
	32	VKS5321-00D	T-UP REEL ASS'Y		2		
	33	VKP4219-00C	PINCH R.(R)ASSY		1		
	34	VKW4981-001	SPRING (R)	FOR PINCH ROLLE	1		
	35	VKW4932-005	P.R. ARM SPRING	FOR RETURN (R)	1		
	42	VKS5327-004	THRUST PLATE		1		
	43	VKS3487-002	IC HOLDER		2		
	44	DN6851A	HALL IC		2		
	45	VKM3416-004	FM BRACKET		1		
	46	VKL6943-007	SAFETY LEVER	FOR DECK B	1		
	47	SDSF2605Z	SCREW	FOR FM BKT	2		
	48	MMI6H2LWK-SA5	MOTOR ASS'Y	FOR CAPSTAN	1		
	49	SDSF2608Z	SCREW		1		
	50	SPSP2603Z	SCREW	FOR MOTOR	2		
	54	VKS3587-00A	CAM SWITCH UNIT		1		
	55	VKY4628-002	SPRING		1		
	56	WNS2000N	WASHER		1		
C	2	QCF11HP-223	C CAPACITOR	.022MF +100:-0%	1		
CN	1	VMC0249-R08N	CONNECTOR	FOR MOTOR	1		
CN	2	VMC0162-R08	CONNECTOR	FOR CAM/HALL IC	1		

## 10 Packing Illustration and Parts List



### ● Packing Parts list

BLOCK NO. **M3MM**

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	1	VMP0039-00D	PIN CORD		1		
A	2	VNN2322-671M	INST BOOK		1	A, B, J	
		VNN2322-661M	INST BOOK		1	C, E, EN, G, U, J	
		VNN2322-271M	INST BOOK		1	EN	
A	3	BT20060	WARRANTY CARD		1	B	
		BT-20066A	WARRANTY CARD		1	B	
		BT-20122	WARRANTY CARD		1	A	
		BT-20122-1-A	WARRANTY CARD		1	A	
		BT-20025K	WARRANTY CARD		1	C	
		BT-20047F	WARRANTY CARD	FOR (EES & PX)	1	J, U, UT	
		BT-20134	WARRANTY CARD		1	G	
A	5	BT20071A	JVC CENTER LIST	FOR (PX)	1	C	
		BT-20137	SERVICE NETWORK		1	J, U, UT	
A	6	E43486-340A	SAFETY I. SHEET		1	B	
		BT-20044G	SAFETY INST.		1	J	
A	8	EWB805-001E	REMOTE WIRE		1		
A	9	VNC5311-203	LINE V CAUTION	FOR EES	1	U, UT	
A	10	VNC5311-204	LINE V CAUTION	FOR PX	1	U, UT	
P	1	VPC2323-M002	CARTON	TD-W708BK	1		BK
		VPC2322-M002	CARTON	TD-W709TN	1		TN
P	2	VPH2456-201	CUSHION (L)		1		
P	3	VPH2457-201	CUSHION (R)		1		
P	4	E300196-031B	ENVELOPE		1		
P	5	VPK3001-012	SHEET		1		
P	6	TDW308BKB-LAB	COMPUTER LABEL		1	B	
		TDW708BKA-LAB	COMPUTER LABEL		1	A	
		TDW709TNC-LAB	COMPUTER LABEL		2	C	
		TDW708BKE-LAB	COMPUTER LABEL		1	E	
		TDW709TNJ-LAB	COMPUTER LABEL		2	J	
		TDW708BKU-LAB	COMPUTER LABEL		1	U	
		TDW708BKUT-LAB	COMPUTER LABEL		1	UT	
		TDW708BKG-LAB	COMPUTER LABEL		1	G	
		TDW708BKEN-LAB	COMPUTER LABEL		1	EN	
P	7	VPE3005-007	POLY BAG	FOR INSTRUCTION	1		
P	8	QO4141H	WIRE CLAMP	FOR POWER CORD	1		
P	9	VPE4010-002	ENVELOPE		1	J, U, UT	
P	10	VYN2323-901	NAME PLATE		1	U, UT	
P	11	QZLA001-012	GREEN POINT LAB		1	E	
		QZLA001-005	GREEN POINT LAB		1	G	
		QZLA001-011	MARK		1	EN	

# JVC

VICTOR COMPANY OF JAPAN, LIMITED.  
PERSONAL AUDIO PRODUCTS DIVISION

10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan